| Register NAME | MODBUS Register | Register VALUE | NEW REAL VALUE | NEW VALUE | DATA TYPE | DO WRITE |
|---|---|---|---|---|---|---|
| | | | | | | |
| CONVERTER STATUS | | | | | | |
| DIP SWITCH | 3x10100<br>4x10100<br>I:10099 | 65,0x0041<br>B:00 41 | | | UINT16<br>R/O | |
| Returns the current setting of the Dip switches.<br>For ULTRA SLIM IOs<br>The current value of the DIP switches:<br>Bit 0: DIP Switch 1 (=0:OFF, =1:ON)<br>Bit 1: DIP Switch 2 (=0:OFF, =1:ON)<br>Bit 2: DIP Switch 3 (=0:OFF, =1:ON)<br>Bit 3: DIP Switch 4 (=0:OFF, =1:ON)<br>For BIG IOs:<br>The current value of the DIP switches:<br>Bit 0: DIP Switch 1 (=0:OFF, =1:ON)<br>Bit 1: DIP Switch 2 (=0:OFF, =1:ON)<br>Bit 2: DIP Switch 3 (=0:OFF, =1:ON)<br>Bit 3: DIP Switch 4 (=0:OFF, =1:ON)<br>Bit 4: DIP Switch 5 (=0:OFF, =1:ON)<br>Bit 5: DIP Switch 6 (=0:OFF, =1:ON)<br>Bit 6: DIP Switch 7 (=0:OFF, =1:ON)<br>Bit 7: DIP Switch 8 (=0:OFF, =1:ON) | | | | | | |
| PRODUCT DATA | | | | | | |
| HW_GROUP | 3x65201<br>4x65201<br>I:65200 | 16384,0x4000<br>B:40 00 | | | UINT16<br>R/O | |
| This is the group of hardware of the current product | | | | | | |
| SW_GROUP | 3x65202<br>4x65202<br>I:65201 | 32783,0x800F<br>B:80 0F | | | UINT16<br>R/O | |
| This is the group of software of the current product | | | | | | |
| SW_VERSION | 3x65203<br>4x65203<br>I:65202 | 4608,0x1200<br>B:12 00 | | | UINT16<br>R/O | |
| | | SW VERSION:1.2.0 | | | | |
| This is the current software version of the firmware | | | | | | |
| SW_AUTHOR | 3x65204<br>4x65204<br>I:65203 | 18771,0x4953<br>B:49 53 | | | UINT16<br>R/O | |
| | | | | | | |
| This is the current software author of the firmware | | | | | | |
| MODBUS SETTINGS | | | | | | |
| UNIT_ID | 3x65222<br>4x65222<br>I:65221 | 1,0x0001<br>B:00 01 | | | UINT16<br>R/O | |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | UNIT ID:1 | | | | |
| If the host reads this register, the current defined unit ID is returned. | | | | | | |
| FLASH UNIT_ID | 3x65223<br>4x65223<br>I:65222 | 15,0x000F<br>B:00 0F | | 27 | UINT16<br>R/W | NO |
| | | UNIT ID:15 | | | | |
| If the host reads this register, the current defined unit ID from the FLASH is returned. This UnitID is used if DIP switch for UnitID is set to 15 | | | | | | |
| HINT:This settings will be active after you repower or reset your device !! | | | | | | |
| BAUD_RATE | 3x65224<br>4x65224<br>I:65223 | 115200,0x0001C200<br>B:00 01 C2 00 | 57600 | 57600 | UINT32<br>R/W | NO |
| | | 115200Bd | | ENTER BAUD RATE | | |
| This is the current configured baud rate in the FLASH<br>For ULTRA SLIM IOs RESI-xxx-SIO: This baudrate is only used, if DIP switch mode DIP1=ON+DIP2=ON (BR) (default is 57600bd)<br>For BIG IOs RESI-xxx-SIO: This baudrate is only used, if DIP switch mode DIP7=ON (PARAMETER) (default is 57600bd) | | | | | | |
| Valid baud rates are:<br>300bd, 600bd, 900bd, 1200bd, 2400bd, 4800bd,<br>9600bd, 19200bd, 38400bd, 57600bd, 115200bd, 128000bd<br>230400bd, 250000bd, 256000bd | | | | | | |
| HINT:This settings will be active after you repower or reset your device !! | | | | | | |
| PARITY | 3x65226<br>4x65226<br>I:65225 | 0,0x0000<br>B:00 00 | | 1:EVEN PARITY | UINT16<br>R/W | NO |
| | | NO PARITY | | SELECT PARITY | | |
| If the register is read out, the currently set parity of the serial interface is returned.<br>Writing a value to this register will change the new parity in FLASH. This will only take effect after a restart of the module. This can be triggered by writing to the RESET SYSTEM register.<br><br>Parity values are<br>0: no parity<br>1: even parity<br>2: odd parity | | | | | | |
| STOP BITS | 3x65227<br>4x65227<br>I:65226 | 1,0x0001<br>B:00 01 | | 2:TWO STOPBITS | UINT16<br>R/W | NO |
| | | ONE STOPBIT | | SELECT STOPBITS | | |
| If the register is read out, the currently set number of stop bits of the serial interface is returned.<br>Writing a value to this register will change the new number of stop bits in the FLASH. This will only take effect after a restart of the module. This can be triggered by writing to the RESET SYSTEM register.<br><br>Values for stop bits are<br>1: one stop bit<br>2: two stop bits | | | | | | |
| MODBUS TIMING | 3x65228<br>4x65228<br>I:65227 | 0,0x0000<br>B:00 00 | | 10 | UINT16<br>R/W | NO |
| | | Actual timing:0ms | | | | |

 

| | | | | | | |
|---|---|---|---|---|---|---|
| If the host reads this register, the current defined timing for MODBUS telegrams is returned. This timing is a time in ms which extends the standard 1.5 character timeout between two consecutive bytes on the serial line.<br>If you write a new value to this register, the new settings are stored into the internal FLASH. Reboot the device to activate the new settings. | | | | | | |
| MODBUS WATCHDOG TIME | 3x65229<br>4x65229<br>I:65228 | 0,0x0000<br>B:00 00 | | 50 | UINT16<br>R/W | YES |
| | | Actual watchdog time in 1/100s:0 -> 0,0s | | | | |
| Writing a value onto this register defines a new time for the internal communcation watchdog timer. The value is a timespan in 1/100s.<br>=0: The communcation watchdog is disabled<br>=1..65535: Communcation watchdog will be trigegred after x 1/100s pause on communcation line<br><br>In case of an communcation watchdog, the module sets all outputs to the states defined in the configuration output registers<br><br>Reading this registe will return the current stored time from the internal FLASH | | | | | | |
| CPU DATA | | | | | | |
| SERIAL1 | 3x65521<br>4x65521<br>I:65520 | 49,0x0031<br>B:00 31 | | | UINT16<br>R/O | |
| Serial number of module as 96 bit unsigned integer number | | | | | | |
| SERIAL2 | 3x65522<br>4x65522<br>I:65521 | 62,0x003E<br>B:00 3E | | | UINT16<br>R/O | |
| SERIAL3 | 3x65523<br>4x65523<br>I:65522 | 21258,0x530A<br>B:53 0A | | | UINT16<br>R/O | |
| SERIAL4 | 3x65524<br>4x65524<br>I:65523 | 18005,0x4655<br>B:46 55 | | | UINT16<br>R/O | |
| SERIAL5 | 3x65525<br>4x65525<br>I:65524 | 12343,0x3037<br>B:30 37 | | | UINT16<br>R/O | |
| SERIAL6 | 3x65526<br>4x65526<br>I:65525 | 8248,0x2038<br>B:20 38 | | | UINT16<br>R/O | |
| | | SERIAL:31003E000A53554637303820 | | | | |
| Serial number of module as 96 bit unsigned integer number | | | | | | |
| CPU TEMPERATURE | 3x65527<br>4x65527<br>I:65526 | 3865,0x0F19<br>B:0F 19 | | | UINT16<br>R/O | |
| | | Current internal temperature of CPU:38,7°C | | | | |
| Current internal temperature of CPU in ° Celsius multiplied by 10. | | | | | | |
| CPU VOLTAGE | 3x65528<br>4x65528<br>I:65527 | 336,0x0150<br>B:01 50 | | | UINT16<br>R/O | |
| | | Current supply voltage of CPU:3,36V | | | | |
| Current internal supply voltage of CPU in Volt multiplied by 1000. | | | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| CPU BATTERY | 3x65529<br>4x65529<br>I:65528 | 317,0x013D<br>B:01 3D | | | UINT16<br>R/O | |
| | | Current battery voltage of CPU:3,17V | | | | |
| Current internal backup battery voltage of CPU in Volt multiplied by 1000. | | | | | | |
| CONVERTER STATUS | | | | | | |
| CONVERTER STATUS | 3x65534<br>4x65534<br>I:65533 | 0,0x0000<br>B:00 00 | | | UINT16<br>R/O | |
| Current status of the converter | | | | | | |
| FACTORY RESET | 3x65535<br>4x65535<br>I:65534 | 0,0x0000<br>B:00 00 | | 1:PERFORM FACTORY RESET | UINT16<br>R/W | NO |
| Performs a factory reset of all internal saved parameters | | | | | | |
| SOFTWARE RESET | | | | | | |
| RESET | 1x65536<br>2x65536<br>I:65535 | 0,0x00<br>B:00 | | N/A:NO CHANGE | BIT<br>R/W | NO |
| Performs a software reset, whenever 1 is written to this register. If the host writes to this register 1, the module executes a soft reset (reboot). | | | | | | |
| RESET | 3x65536<br>4x65535<br>I:65535 | 0,0x0000<br>B:00 00 | | N/A:NO CHANGE | UINT16<br>R/W | NO |
| Performs a software reset, whenever 1 is written to this register. If the host writes to this register 1, the module executes a soft reset (reboot). | | | | | | |

| Command NAME | ASCII command type | ASCII command structure | NEW REAL VALUE | NEW VALUE | DATA TYPE | DO WRITE |
|---|---|---|---|---|---|---|
| | | | | | | |
| ASCII COMMANDS | | | | | | |
| HEART BEAT | ASCII READ COMMAND | #HB<CR><br>Result:<br>#HB<CR> | | | ASCII | |
| | TX | #1,HB<CR> | | | | |
| | RX | #1,HB<CR> | | | | |
| Sends an Heartbeat to test the communcation | | | | | | |
| GET VERSION | ASCII READ COMMAND | #VERSION<CR><br>Result:<br>#VERSION:<VersionHi>,<VersionMed>,<VersionLo><CR> | | | ASCII | |
| | TX | #1,VERSION<CR> | | | | |
| | RX | #1,VERSION:1.2.00<CR> | | | | |
| | | Current SW version:1.2.00 | | | | |
| Returns the version number of the module<br>VersionHi: Version number high (1..255)<br>VersionMed: Version number medium (1..255)<br>VersionLo: Version number low (1..255) | | | | | | |
| GET TYPE | ASCII READ COMMAND | #TYPE<CR><br>Result:<br>#TYPE:<Type><CR> | | | ASCII | |
| | TX | #1,TYPE<CR> | | | | |
| | RX | #1,TYPE:RESI-16RO-SIO<CR> | | | | |
| | | Current module type:RESI-16RO-SIO | | | | |
| Returns the current module type | | | | | | |
| GET FEATURES | ASCII READ COMMAND | #FTRS<CR><br>Result:<br>#FTRS:<Type><CR> | | | ASCII | |
| | TX | #1,FTRS<CR> | | | | |
| | RX | #1,FTRS:RESI-16RO-SIO,16RO<CR> | | | | |
| | | Current module type:RESI-16RO-SIO | | | | |
| Returns the current module features | | | | | | |
| GET OWNER | ASCII READ COMMAND | #OWNER<CR><br>Result:<br>#OWNER:<Owner><CR> | | | ASCII | |
| | TX | #1,OWNER<CR> | | | | |
| | RX | #1,OWNER:RESI<CR> | | | | |
| | | Current owner:RESI | | | | |
| Returns the current owner of the module | | | | | | |

| | | | | |
|---|---|---|---|---|
| GET CREATOR | ASCII<br>READ<br>COMMAND | #CREATOR<CR><br>Result:<br>#CREATOR:<Creator><CR> | ASCII | |
| | TX | #1,CREATOR<CR> | | |
| | RX | #1,CREATOR:DI HC SIGL,MSC<CR> | | |
| | | Current creator:DI HC SIGL,MSC | | |
| Returns the current creator of the module | | | | |
| GET COPYRIGHT | ASCII<br>READ<br>COMMAND | #COPYRIGHT<CR><br>Result:<br>#COPYRIGHT:<Copyright><CR> | ASCII | |
| | TX | #1,COPYRIGHT<CR> | | |
| | RX | #1,COPYRIGHT:2015-23 BY RESI AND DI HC SIGL,MSC WWW.RESI.CC<CR> | | |
| | | Current copyright:2015-23 BY RESI AND DI HC SIGL,MSC WWW.RESI.CC | | |
| Returns the current copyright of the module | | | | |
| GET SERIAL NUMBER | ASCII<br>READ<br>COMMAND | #SN<CR><br>Result:<br>#SN:<Serial><CR> | ASCII | |
| | TX | #1,SN<CR> | | |
| | RX | #1,SN:31003E000A53554637303820<CR> | | |
| | | Current serial number:31003E000A53554637303820 | | |
| Returns the current serial number of the module | | | | |
| GET INTERNAL STATUS | ASCII<br>READ<br>COMMAND | #INTSTAT<CR><br>Result:<br>#INTSTAT:<Status><CR> | ASCII | |
| | TX | #1,INTSTAT<CR> | | |
| | RX | #1,INTSTAT:I2C1:0,I2C2:0,FRAM:28<CR> | | |
| Returns the device specific internal status | | | | |
| GET DIP SWITCH | ASCII<br>READ<br>COMMAND | #GDIP<CR><br>Result:<br>#GDIP:<DIPSwitchDec>,<DIPSwitchHex><CR> | ASCII | |
| | TX | #1,GDIP<CR> | | |
| | RX | #1,GDIP:65,0x41<CR> | | |
| | | Current DIP SWITCH settings:0100.0001 | | |
| Returns the current setting of the Dip switches as decimal number and as hexadecimal number.<br>DIPSwitchDec<br>DIPSwitchHex<br>The current value of the DIP switches:<br>Bit 0: DIP Switch 1 (=0:OFF, =1:ON)<br>Bit 1: DIP Switch 2 (=0:OFF, =1:ON)<br>Bit 2: DIP Switch 3 (=0:OFF, =1:ON)<br>Bit 3: DIP Switch 4 (=0:OFF, =1:ON)<br>Bit 4: DIP Switch 5, if available (=0:OFF, =1:ON)<br>Bit 5: DIP Switch 6, if available (=0:OFF, =1:ON)<br>Bit 6: DIP Switch 7, if available (=0:OFF, =1:ON)<br>Bit 7: DIP Switch 8, if available (=0:OFF, =1:ON) | | | | |
| ASCII COMMANDS | | | | |

| | | | | |
|---|---|---|---|---|
| SET MODBUS ADDRESS | ASCII<br>WRITE<br>COMMAND | #SMBADR:<UNITID><CR><br>Result:<br>#OK<CR> | ASCII | NO |
| | UNITID | 123 | | |
| | TX | #1,SMBADR:123<CR> | | |
| | RX | N/A | | |
| | | | | |
| Redefines the unit ID of the module. This change will affect the MODBUS/RTU communication immediately. As a Unit IO you can use the values 0dec to 255dec.<br><br>HINT: The new settings are activated after a system reboot or power off on cycle! | | | | |
| SET MODBUS BAUDRATE | ASCII<br>WRITE<br>COMMAND | #SMBBAUD:<BAUD><CR><br>Result:<br>#OK<CR> | ASCII | NO |
| | BAUD | 128000:128000BD | | |
| | TX | #1,SMBBAUD:128000<CR> | | |
| | RX | N/A | | |
| | | | | |
| Sets a new baud rate in the FLASH<br>For ULTRA SLIM IOs RESI-xxx-SIO: This baudrate is only used, if DIP switch mode DIP1=ON+DIP2=ON (BR) (default is 57600bd)<br>For BIG IOs RESI-xxx-SIO: This baudrate is only used, if DIP switch mode DIP7=ON (PARAMETER) (default is 57600bd)<br>The following baudrates are allowed:<br>300bd, 600bd, 900bd, 1200bd, 2400bd, 4800bd,<br>9600bd, 19200bd, 38400bd, 57600bd, 115200bd, 128000bd<br>230400bd, 250000bd, 256000bd<br><br>HINT: The new setup parameters will be active after a restart of the module. | | | | |
| SET MODBUS PARITY | ASCII<br>WRITE<br>COMMAND | #SMBPAR:<PARITY><CR><br>Result:<br>#OK<CR> | ASCII | NO |
| | PARITY | ODD:ODD PARITY | | |
| | TX | #1,SMBPAR:ODD<CR> | | |
| | RX | N/A | | |
| | | | | |
| Sets a new parity for the serial interface.<br>MBParity:<br>NONE: no parity<br>EVEN: even parity<br>ODD: odd parity<br><br>HINT: The new setup parameters will be active after a restart of the module. | | | | |
| SET MODBUS STOPS | ASCII<br>WRITE<br>COMMAND | #SMBSTOP:<STOPBIT><CR><br>Result:<br>#OK<CR> | ASCII | NO |
| | STOPBIT | TWO:TWO STOPBITS | | |
| | TX | #1,SMBSTOP:TWO<CR> | | |
| | RX | N/A | | |
| | | | | |

| | | | | |
|---|---|---|---|---|
| Sets a new amount of stop bits for the serial interface.<br>MBStops<br>ONE: one stop bit<br>TWO: two stop bits<br><br>HINT: The new setup parameters will be active after a restart of the module. | | | | |
| SET MODBUS PARAMS | ASCII<br>WRITE<br>COMMAND | #SMBPARAMS:<UNITID>,<BAUD>,<PARITY>,<STOPBIT><CR><br>Result:<br>#OK<CR> | ASCII | NO |
| | UNITID | 3 | | |
| | BAUD | 115200:115200BD | | |
| | PARITY | EVEN:EVEN PARITY | | |
| | STOPBIT | TWO:TWO STOPBITS | | |
| | TX | #1,SMBPARAMS:3,115200,EVEN,TWO<CR> | | |
| | RX | N/A | | |
| Sets all parameters for serrial interface | | | | |
| GET MODBUS ADDRESS | ASCII<br>READ<br>COMMAND | #GMBADR<CR><br>Result:<br>#GMBADR:<MBUnitDec>,<MBFLASHDec>,<MBUnitHex>,<MBFLASHHex><CR> | ASCII | |
| | TX | #1,GMBADR<CR> | | |
| | RX | #1,GMBADR:1,15,0x1,0xF<CR> | | |
| | | Current MODBUS unit ID:1,15,0x1,0xF | | |
| Shows the current used MODBUS/RTU or ASCII unit address and shows also the stored unit address in the FLASH memory, which is only used if the DIP switch for the bus address is set to 0.<br><br>MBUnitDec,MBUnitHex<br>The current used MODBUS/RTU unit or ASCII address for communication<br><br>MBFLASHDec,MBFLASHHex<br>The internal stored MODBUS/RTU unit address or ASCII address from the FLASH memory, if the DIP switch DIP3 is OFF. | | | | |
| GET MODBUS BAUDRATE | ASCII<br>READ<br>COMMAND | #GMBBAUD<CR><br>Result:<br>#GMBBAUD:<BaudRate><CR> | ASCII | |
| | TX | #1,GMBBAUD<CR> | | |
| | RX | #1,GMBBAUD:115200,0x1C200<CR> | | |
| | | Current baudrate:115200,0x1C200 | | |
| This is the current configured baud rate in the FLASH<br>For ULTRA SLIM IOs RESI-xxx-SIO: This baudrate is only used, if DIP switch mode DIP1=ON+DIP2=ON (BR) (default is 57600bd)<br>For BIG IOs RESI-xxx-SIO: This baudrate is only used, if DIP switch mode DIP7=ON (PARAMETER) (default is 57600bd)<br>The following baudrates are allowed:<br>300bd, 600bd, 900bd, 1200bd, 2400bd, 4800bd,<br>9600bd, 19200bd, 38400bd, 57600bd, 115200bd, 128000bd<br>230400bd, 250000bd, 256000bd | | | | |
| GET MODBUS PARITY | ASCII<br>READ<br>COMMAND | #GMBPAR<CR><br>Result:<br>#GMBPAR:<MBParity><CR> | ASCII | |
| | TX | #1,GMBPAR<CR> | | |
| | RX | #1,GMBPAR:NONE<CR> | | |

| | | | | |
|---|---|---|---|---|
| | | Current parity:NONE | | |
| Shows the current configured parity of the serial interface.<br>MBParity<br>NONE: no parity<br>EVEN: even parity<br>ODD: odd parity | | | | |
| GET MODBUS STOP | ASCII<br>READ<br>COMMAND | #GMBSTOP<CR><br>Result:<br>#GMBSTOP:<MBStop><CR> | ASCII | |
| | TX | #1,GMBSTOP<CR> | | |
| | RX | #1,GMBPAR:ONE<CR> | | |
| | | Current stopbit(s):ONE | | |
| Shows the current configured parity of the serial interface.<br>MBParity<br>NONE: no parity<br>EVEN: even parity<br>ODD: odd parity | | | | |
| GET MODBUS PARAMS | ASCII<br>READ<br>COMMAND | #GMBPARAMS<CR><br>Result:<br>#GMBPARAMS:<MBUnitDec>,<MBFLASHDec>,<MBUnitHex>,<MBFLASHHex>,<br><MBBaudrateDec>,<MBBaudrateHex>,<MBParity>,<MBStops><CR> | ASCII | |
| | TX | #1,GMBPARAMS<CR> | | |
| | RX | #1,GMBADR:1,0x1,15,0xF,115200,0x1C200,NONE,ONE<CR> | | |
| | | Current MODBUS unit ID used:1 | | |
| | | Current MODBUS unit ID in FLASH:15 | | |
| | | Current baudrate in FLASH:115200 | | |
| | | Current parity in FLASH:NONE | | |
| | | Current stopbit(s) in FLASH:ONE | | |
| Returns the complete settings for serial interface | | | | |
| ASCII COMMANDS | | | | |
| RESET | ASCII<br>WRITE<br>COMMAND | #RST<CR><br>Result:<br>#OK<CR> | ASCII | NO |
| | TX | #1,RST<CR> | | |
| | RX | N/A | | |
| Executes a software reset (Reboot) of the module. | | | | |
| FACTORY RESET | ASCII<br>WRITE<br>COMMAND | #FRST<CR><br>Result:<br>#OK<CR> | ASCII | NO |
| | TX | #1,FRST<CR> | | |
| | RX | N/A | | |
| Performs a factory reset of all internal saved parameters | | | | |
| SET MODBUS WATCHDOG TIMER | ASCII<br>WRITE<br>COMMAND | #SMBWATCHDOG:<WDTIME><CR><br>Result:<br>#OK<CR> | ASCII | YES |

| | | | | |
|---|---|---|---|---|
| | WDTIME | 100 | | |
| | TX | #1,SMBWATCHDOG:100<CR> | | |
| | RX | #1,OK<CR> | | |

Enables or disables the WATCHDOG Timer for the IO module.
WDTIME:
1..65535: Time for Watchdog in 1/100s
=0: Watchdog is deactivated
HINT: The Watchdog is internally handled every 100ms. If the IO module receives no valid frame within this time period, the outputs are set to predefined values!

| | | | | |
|---|---|---|---|---|
| GET MODBUS WATCHDOG TIMER | ASCII READ COMMAND | #GMBWATCHDOG<CR><br>Result:<br>#GMBWATCHDOG:<WDTIME><CR> | ASCII | |
| | TX | #1,GMBWATCHDOG<CR> | | |
| | RX | #1,GMBWATCHDOG:100,0x64<CR> | | |
| | | Current watchdog time:100 -> 10,0s | | |

Shows the actual configured time for the telegram watchdog function of the IO module.
WDTIME:
1..65535: Time for Watchdog in 1/100s
=0: Watchdog is deactivated
HINT: The Watchdog is internally handled every 100ms. If the IO module receives no valid frame within this time period, the outputs are set to predefined values!

## CPU PARAMETERS

| | | | | |
|---|---|---|---|---|
| GET CPU VOLTAGE | ASCII READ COMMAND | #GCPUTEMP<CR><br>Result:<br>#GCPUTEMP:<CPUTemp><CR> | ASCII | |
| | TX | #1,GCPUTEMP<CR> | | |
| | RX | #1,GCPUTEMP:38.7842<CR> | | |
| | | Current internal temperature of CPU:38.7842°C | | |

Current internal temperature of CPU in ° Celsius.

| | | | | |
|---|---|---|---|---|
| GET CPU VOLTAGE | ASCII READ COMMAND | #GCPUVOLT<CR><br>Result:<br>#GCPUVOLT:<CPUVoltage><CR> | ASCII | |
| | TX | #1,GCPUVOLT<CR> | | |
| | RX | #1,GCPUVOLT:3.3632<CR> | | |
| | | Current supply voltage of CPU:3.3632V | | |

Current internal supply voltage of CPU in Volt.

| | | | | |
|---|---|---|---|---|
| GET CPU BATTERY | ASCII READ COMMAND | #GCPUBACK<CR><br>Result:<br>#GCPUBACK:<CPUBackupVoltage><CR> | ASCII | |
| | TX | #1,GCPUBACK<CR> | | |
| | RX | #1,GCPUBATT:3.1793<CR> | | |
| | | Current backup voltage of CPU:3.1793V | | |

Current internal backup capacitor voltage of CPU in Volt.

| Register NAME<br>Command NAME | MODBUS<br>Register<br>ASCII<br>Command | Register VALUE<br>ASCII Command | NEW REAL<br>VALUE | NEW<br>VALUE | DATA TYPE | DO<br>WRITE |
|---|---|---|---|---|---|---|
| | | | | | | |
| LED GROUPs:STATUS of FADING | | | | | | |
| LED GROUP1<br>IS FADING | 1x00001<br>2x00001<br>I:0 | 0,0x00<br>B:00 | | | BIT<br>R/O | |
| | | LED1:Current fading state of group:0=NO FADING | | | | |
| Is currently a fading in the LED group LED1 active<br>=0:no fading is active<br>=1:Fading is active | | | | | | |
| LED GROUP2<br>IS FADING | 1x00002<br>2x00002<br>I:1 | 0,0x00<br>B:00 | | | BIT<br>R/O | |
| | | LED2:Current fading state of group:0=NO FADING | | | | |
| LED GROUP3<br>IS FADING | 1x00003<br>2x00003<br>I:2 | 0,0x00<br>B:00 | | | BIT<br>R/O | |
| | | LED3:Current fading state of group:0=NO FADING | | | | |
| LED GROUP4<br>IS FADING | 1x00004<br>2x00004<br>I:3 | 0,0x00<br>B:00 | | | BIT<br>R/O | |
| | | LED4:Current fading state of group:0=NO FADING | | | | |
| LED GROUPs:IS LED GROUP ON | | | | | | |
| LED GROUP1<br>IS ON | 1x00001<br>2x00001<br>I:0 | 0,0x00<br>B:00 | | | BIT<br>R/O | |
| | | LED1:Current fading state of group:0=NO FADING | | | | |
| Is currently one of the three channels of the LED group on (CLOx>0)<br>=0:no all three channels are OFF (=0)<br>=1:Yes, at least one channel is ON (>0) | | | | | | |
| LED GROUP2<br>IS ON | 1x00002<br>2x00002<br>I:1 | 0,0x00<br>B:00 | | | BIT<br>R/O | |
| | | LED2:Current fading state of group:0=NO FADING | | | | |
| LED GROUP3<br>IS ON | 1x00003<br>2x00003<br>I:2 | 0,0x00<br>B:00 | | | BIT<br>R/O | |
| | | LED3:Current fading state of group:0=NO FADING | | | | |
| LED GROUP4<br>IS ON | 1x00004<br>2x00004<br>I:3 | 0,0x00<br>B:00 | | | BIT<br>R/O | |
| | | LED4:Current fading state of group:0=NO FADING | | | | |

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|---|---|---|---|---|---|---|
| LED OUTPUTS | | | | | | |
| LED1:OUTPUT A:<br>LO1 | 3x00001<br>4x00001<br>I:0 | 0,0x0000<br>B:00 00 | 410 | 10,0 | UINT16<br>R/W | YES |
| | | LED1:Current brightness setpoint for PWM output A: 0->0,00% | | | | |
| Current set point of LED group LEDx PWM output y.<br>0..4095 or 0x000...0xFFF for 0% to 100% brightness<br><br>If you write onto this register, you define a new set point value for the PWM output | | | | | | |
| LED1:OUTPUT B:<br>LO2 | 3x00002<br>4x00002<br>I:1 | 4095,0x0FFF<br>B:0F FF | 410 | 10,0 | UINT16<br>R/W | YES |
| | | LED1:Current brightness setpoint for PWM output B: 4095->100,00% | | | | |
| LED1:OUTPUT C:<br>LO3 | 3x00003<br>4x00003<br>I:2 | 38,0x0026<br>B:00 26 | 410 | 10,0 | UINT16<br>R/W | YES |
| | | LED1:Current brightness setpoint for PWM output C: 38->0,93% | | | | |
| LED2:OUTPUT A:<br>LO4 | 3x00004<br>4x00004<br>I:3 | 0,0x0000<br>B:00 00 | 410 | 10,0 | UINT16<br>R/W | YES |
| | | LED2:Current brightness setpoint for PWM output A: 0->0,00% | | | | |
| LED2:OUTPUT B:<br>LO5 | 3x00005<br>4x00005<br>I:4 | 0,0x0000<br>B:00 00 | 410 | 10,0 | UINT16<br>R/W | YES |
| | | LED2:Current brightness setpoint for PWM output B: 0->0,00% | | | | |
| LED2:OUTPUT C:<br>LO6 | 3x00006<br>4x00006<br>I:5 | 0,0x0000<br>B:00 00 | 410 | 10,0 | UINT16<br>R/W | YES |
| | | LED2:Current brightness setpoint for PWM output C: 0->0,00% | | | | |
| LED3:OUTPUT A:<br>LO7 | 3x00007<br>4x00007<br>I:6 | 0,0x0000<br>B:00 00 | 410 | 10,0 | UINT16<br>R/W | YES |
| | | LED3:Current brightness setpoint for PWM output A: 0->0,00% | | | | |
| LED3:OUTPUT B:<br>LO8 | 3x00008<br>4x00008<br>I:7 | 0,0x0000<br>B:00 00 | 410 | 10,0 | UINT16<br>R/W | YES |
| | | LED3:Current brightness setpoint for PWM output B: 0->0,00% | | | | |
| LED3:OUTPUT C:<br>LO9 | 3x00009<br>4x00009<br>I:8 | 0,0x0000<br>B:00 00 | 410 | 10,0 | UINT16<br>R/W | YES |
| | | LED3:Current brightness setpoint for PWM output C: 0->0,00% | | | | |
| LED4:OUTPUT A:<br>LO10 | 3x00010<br>4x00010<br>I:9 | 0,0x0000<br>B:00 00 | 410 | 10,0 | UINT16<br>R/W | YES |
| | | LED4:Current brightness setpoint for PWM output A: 0->0,00% | | | | |

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|---|---|---|---|---|---|---|
| LED4:OUTPUT B:<br>LO11 | 3x00011<br>4x00011<br>I:10 | 0,0x0000<br>B:00 00 | 410 | 10,0 | UINT16<br>R/W | YES |
| | | LED4:Current brightness setpoint for PWM output B: 0->0,00% | | | | |
| LED4:OUTPUT C:<br>LO12 | 3x00012<br>4x00012<br>I:11 | 0,0x0000<br>B:00 00 | 410 | 10,0 | UINT16<br>R/W | YES |
| | | LED4:Current brightness setpoint for PWM output C: 0->0,00% | | | | |
| LED GROUPS:MODES | | | | | | |
| LED GROUP LED1:<br>MODE | 3x00013<br>4x00013<br>I:12 | 1,0x0001<br>B:00 01 | | 1:ON | UINT16<br>R/W | YES |
| | | LED1:Current mode for group: 1:ON | | | | |
| Current mode of LED group LED1<br>=0:OFF: It does not matter which values are stored in the set point registers for the outputs A, B and C, the real output values of the LED group are always 0.<br>=1:ON: The module outputs immediately the values of the three set point registers LOx A, LOx B and LOx C to the three PWM outputs.<br>=2:FLASH: Fort he defined time span MINTIMEx in 1/10s all three outputs of the LED group are set to the set point values LOx A, LOx B and LOx C.<br>Then the three outputs are set to 0 for the timespan defined in the register MAXTIMEx in 1/10s. This cycle is repeated endlessly.<br>=3: FADE: if you write a new value into one of the three output set point registers LOx A, LOx B or LOx C, the system increments/decrements every 1/100s the current output values with the value FADESPEEDx to the new setpoint values, until the output registers CLOx A=LOx A and CLOx B=LOx B and CLOx C=LOx C.<br>The fadespeed is defined in steps per 1/100s.<br>=4:RANDOM: In this mode the module dices after a random time span in the range of MINTIMEx and MAXTIMEx in seconds three new random values for the registers RLOx A, RLOx B and RLOx C.<br>This rules are used: New diced value for RLOx is between 0 and LOxThen the module fades with the defined FADESPEEDx to the new dimming values RLOx.<br>=5: SEQUENCE: Every channel flashes sequentially for MINTIMEx 1/10s. In between the module switches off all three outputs for MAXTIMEx in 1/10s.<br>If you write onto this register, you define a new mode for this LED group.<br>=6: HSV EFFECTS:This mode activates the HSV effects defined with the HSV MODE registers and HSV EFFECT settings | | | | | | |
| LED GROUP LED2:<br>MODE | 3x00014<br>4x00014<br>I:13 | 1,0x0001<br>B:00 01 | | 1:ON | UINT16<br>R/W | YES |
| | | LED2:Current mode for group: 1:ON | | | | |
| LED GROUP LED3:<br>MODE | 3x00015<br>4x00015<br>I:14 | 1,0x0001<br>B:00 01 | | 1:ON | UINT16<br>R/W | YES |
| | | LED3:Current mode for group: 1:ON | | | | |
| LED GROUP LED4:<br>MODE | 3x00016<br>4x00016<br>I:15 | 1,0x0001<br>B:00 01 | | 1:ON | UINT16<br>R/W | YES |
| | | LED4:Current mode for group: 1:ON | | | | |
| LED GROUPS:FADING SPEED | | | | | | |
| LED GROUP LED1:<br>FADE SPEED | 3x00017<br>4x00017<br>I:16 | 10,0x000A<br>B:00 0A | | 10 | UINT16<br>R/W | YES |
| | | LED1:Current fading speed for group: 1,00s | | | | |

 

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|---|---|---|---|---|---|---|
| Current dimming or fading speed for the outputs in mode FADE and RANDOM in steps per 1/100s. The smallest value is 1.<br>Every 1/100s the system add/subtracts this FADESPEED1 value from the three outputs CLO1, CLO2 and CLO3.<br>So the value 1 means, that with a start value of 0 and a new end value of 4095, the fade up process will last for 40.95 seconds.<br>This is the slowest fading speed of the module.<br>A value of 4095 or more defines the fastest fade speed. After 1/100s the new value will be valid.<br><br>If you write on this register, you will redefine the FADESPEED1 | | | | | | |
| LED GROUP LED2:<br>FADE SPEED | 3x00018<br>4x00018<br>I:17 | 10,0x000A<br>B:00 0A | | 10 | UINT16<br>R/W | YES |
| | | LED2:Current fading speed for group: 1,00s | | | | |
| LED GROUP LED3:<br>FADE SPEED | 3x00019<br>4x00019<br>I:18 | 10,0x000A<br>B:00 0A | | 10 | UINT16<br>R/W | YES |
| | | LED3:Current fading speed for group: 1,00s | | | | |
| LED GROUP LED4:<br>FADE SPEED | 3x00020<br>4x00020<br>I:19 | 10,0x000A<br>B:00 0A | | 10 | UINT16<br>R/W | YES |
| | | LED4:Current fading speed for group: 1,00s | | | | |
| LED GROUPS:TIMINGS | | | | | | |
| LED GROUP LED1:<br>MINTIME | 3x00021<br>4x00021<br>I:20 | 10,0x000A<br>B:00 0A | | 10 | UINT16<br>R/W | YES |
| | | LED1:Current minimum time for group: 1,00s | | | | |
| For the mode FLASH and SEQUENCE this value means the ON time of the flashing or sequence cycle in 1/10s.<br>For the mode RANDOM this value defines the minimum time span for a new dicing cycle. The dicing cycle dices new random values for the registers<br>RLO1, RLO2 and RLO3 and fades to this new brightness values. The time span is defined in seconds.<br><br>If you write to this register, you will redefine this value. | | | | | | |
| LED GROUP LED2:<br>MINTIME | 3x00022<br>4x00022<br>I:21 | 10,0x000A<br>B:00 0A | | 10 | UINT16<br>R/W | YES |
| | | LED2:Current minimum time for group: 1,00s | | | | |
| LED GROUP LED3:<br>MINTIME | 3x00023<br>4x00023<br>I:22 | 10,0x000A<br>B:00 0A | | 10 | UINT16<br>R/W | YES |
| | | LED3:Current minimum time for group: 1,00s | | | | |
| LED GROUP LED4:<br>MINTIME | 3x00024<br>4x00024<br>I:23 | 10,0x000A<br>B:00 0A | | 10 | UINT16<br>R/W | YES |
| | | LED4:Current minimum time for group: 1,00s | | | | |
| LED GROUP LED1:<br>MAXTIME | 3x00025<br>4x00025<br>I:24 | 10,0x000A<br>B:00 0A | | 10 | UINT16<br>R/W | YES |
| | | LED1:Current maximum time for group: 1,00s | | | | |

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|---|---|---|---|---|---|---|
| For the mode FLASH and SEQUENCE this value means the OFF time of the flashing or sequence cycle in 1/10s.<br>For the mode RANDOM this value defines the maximum time span for a new dicing cycle.<br>The dicing cycle dices new random values for the registers RLO1, RLO2 and RLO3<br>and fades to this new brightness values. The time span is defined in seconds.<br><br>If you write to this register, you will redefine this value. | | | | | | |
| LED GROUP LED2:<br>MAXTIME | 3x00026<br>4x00026<br>I:25 | 10,0x000A<br>B:00 0A | | 10 | UINT16<br>R/W | YES |
| | | LED2:Current maximum time for group: 1,00s | | | | |
| LED GROUP LED3:<br>MAXTIME | 3x00027<br>4x00027<br>I:26 | 10,0x000A<br>B:00 0A | | 10 | UINT16<br>R/W | YES |
| | | LED3:Current maximum time for group: 1,00s | | | | |
| LED GROUP LED4:<br>MAXTIME | 3x00028<br>4x00028<br>I:27 | 10,0x000A<br>B:00 0A | | 10 | UINT16<br>R/W | YES |
| | | LED4:Current maximum time for group: 1,00s | | | | |
| LED GROUPS: FADING STATE | | | | | | |
| LED GROUP LED1:<br>IS FADING | 3x00029<br>4x00029<br>I:28 | 0,0x0000<br>B:00 00 | | | UINT16<br>R/O | |
| | | LED1:Current fading state of group:0=NO FADING | | | | |
| Is currently a fading in the LED group LED1 active<br>=0:no fading is active<br>=1:Fading is active | | | | | | |
| LED GROUP LED2:<br>IS FADING | 3x00030<br>4x00030<br>I:29 | 0,0x0000<br>B:00 00 | | | UINT16<br>R/O | |
| | | LED2:Current fading state of group:0=NO FADING | | | | |
| LED GROUP LED3:<br>IS FADING | 3x00031<br>4x00031<br>I:30 | 0,0x0000<br>B:00 00 | | | UINT16<br>R/O | |
| | | LED3:Current fading state of group:0=NO FADING | | | | |
| LED GROUP LED4:<br>IS FADING | 3x00032<br>4x00032<br>I:31 | 0,0x0000<br>B:00 00 | | | UINT16<br>R/O | |
| | | LED4:Current fading state of group:0=NO FADING | | | | |
| LED GROUPS: IS GROUP ON | | | | | | |
| LED GROUP LED1:<br>IS ON | 3x00033<br>4x00033<br>I:32 | 6,0x0006<br>B:00 06 | | | UINT16<br>R/O | |
| | | LED1:Current ON state of group:6=LO1 OFF - LO2 ON - LO3 ON | | | | |

 

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|---|---|---|---|---|---|---|
| Is currently one of the three channels of the LED group on (CLOx>0)<br>Every Bit stands for one of the three LED OUTPUTS of the group<br>Bit 0: =0:LO0 is OFF (output=0), =1:LO0 is ON (output>0)<br>Bit 1: =0:LO1 is OFF (output=0), =1:LO1 is ON (output>0)<br>Bit 2: =0:LO2 is OFF (output=0), =1:LO2 is ON (output>0) | | | | | | |
| LED GROUP LED2:<br>IS ON | 3x00034<br>4x00034<br>I:33 | 0,0x0000<br>B:00 00 | | | UINT16<br>R/O | |
| | | LED2:Current ON state of group:0=LO1 OFF - LO2 OFF - LO3 OFF | | | | |
| LED GROUP LED3:<br>IS ON | 3x00035<br>4x00035<br>I:34 | 0,0x0000<br>B:00 00 | | | UINT16<br>R/O | |
| | | LED2:Current ON state of group:0=LO1 OFF - LO2 OFF - LO3 OFF | | | | |
| LED GROUP LED4:<br>IS ON | 3x00036<br>4x00036<br>I:35 | 0,0x0000<br>B:00 00 | | | UINT16<br>R/O | |
| | | LED2:Current ON state of group:0=LO1 OFF - LO2 OFF - LO3 OFF | | | | |
| LED CURRENT OUTPUTS | | | | | | |
| LED1:OUTPUT A:<br>CLO1 | 3x00037<br>4x00037<br>I:36 | 0,0x0000<br>B:00 00 | | | UINT16<br>R/O | |
| | | LED1:Current brightness for PWM output A: 0->0,00% | | | | |
| The real value on the LED PWM output LEDx channel y including dimming and the current mode.<br>0..4095 or 0x000...0xFFF for 0% to 100% brightness | | | | | | |
| LED1:OUTPUT B:<br>CLO2 | 3x00038<br>4x00038<br>I:37 | 4095,0x0FFF<br>B:0F FF | | | UINT16<br>R/O | |
| | | LED1:Current brightness for PWM output B: 4095->100,00% | | | | |
| LED1:OUTPUT C:<br>CLO3 | 3x00039<br>4x00039<br>I:38 | 38,0x0026<br>B:00 26 | | | UINT16<br>R/O | |
| | | LED1:Current brightness for PWM output C: 38->0,93% | | | | |
| LED2:OUTPUT A:<br>CLO4 | 3x00040<br>4x00040<br>I:39 | 0,0x0000<br>B:00 00 | | | UINT16<br>R/O | |
| | | LED2:Current brightness for PWM output A: 0->0,00% | | | | |
| LED2:OUTPUT B:<br>CLO5 | 3x00041<br>4x00041<br>I:40 | 0,0x0000<br>B:00 00 | | | UINT16<br>R/O | |
| | | LED2:Current brightness for PWM output B: 0->0,00% | | | | |
| LED2:OUTPUT C:<br>CLO6 | 3x00042<br>4x00042<br>I:41 | 0,0x0000<br>B:00 00 | | | UINT16<br>R/O | |
| | | LED2:Current brightness for PWM output C: 0->0,00% | | | | |

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|---|---|---|---|---|---|---|
| LED3:OUTPUT A:<br>CLO7 | 3x00043<br>4x00043<br>I:42 | 0,0x0000<br>B:00 00 | | | UINT16<br>R/O | |
| | | LED3:Current brightness for PWM output A: 0->0,00% | | | | |
| LED3:OUTPUT B:<br>CLO8 | 3x00044<br>4x00044<br>I:43 | 0,0x0000<br>B:00 00 | | | UINT16<br>R/O | |
| | | LED3:Current brightness for PWM output B: 0->0,00% | | | | |
| LED3:OUTPUT C:<br>CLO9 | 3x00045<br>4x00045<br>I:44 | 0,0x0000<br>B:00 00 | | | UINT16<br>R/O | |
| | | LED3:Current brightness for PWM output C: 0->0,00% | | | | |
| LED4:OUTPUT A:<br>CLO10 | 3x00046<br>4x00046<br>I:45 | 0,0x0000<br>B:00 00 | | | UINT16<br>R/O | |
| | | LED4:Current brightness for PWM output A: 0->0,00% | | | | |
| LED4:OUTPUT B:<br>CLO11 | 3x00047<br>4x00047<br>I:46 | 0,0x0000<br>B:00 00 | | | UINT16<br>R/O | |
| | | LED4:Current brightness for PWM output B: 0->0,00% | | | | |
| LED4:OUTPUT C:<br>CLO12 | 3x00048<br>4x00048<br>I:47 | 0,0x0000<br>B:00 00 | | | UINT16<br>R/O | |
| | | LED4:Current brightness for PWM output C: 0->0,00% | | | | |
| LED RANDOM VALUES | | | | | | |
| LED1:OUTPUT A:<br>RLO1 | 3x00049<br>4x00049<br>I:48 | 0,0x0000<br>B:00 00 | | | UINT16<br>R/O | |
| | | LED1:Last diced random value for output A: 0->0,00% | | | | |
| The last diced random number for the LED PWM output LEDx channel y in mode RANDOM.<br>0..4095 or 0x000...0xFFF for 0% to 100% brightness | | | | | | |
| LED1:OUTPUT B:<br>RLO2 | 3x00050<br>4x00050<br>I:49 | 0,0x0000<br>B:00 00 | | | UINT16<br>R/O | |
| | | LED1:Last diced random value for output B: 0->0,00% | | | | |
| LED1:OUTPUT C:<br>RLO3 | 3x00051<br>4x00051<br>I:50 | 0,0x0000<br>B:00 00 | | | UINT16<br>R/O | |
| | | LED1:Last diced random value for output C: 0->0,00% | | | | |
| LED2:OUTPUT A:<br>RLO4 | 3x00052<br>4x00052<br>I:51 | 0,0x0000<br>B:00 00 | | | UINT16<br>R/O | |
| | | LED2:Last diced random value for output A: 0->0,00% | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| LED2:OUTPUT B:<br>RLO5 | 3x00053<br>4x00053<br>I:52 | 0,0x0000<br>B:00 00 | | | UINT16<br>R/O | |
| | | LED2:Last diced random value for output B: 0->0,00% | | | | |
| LED2:OUTPUT C:<br>RLO6 | 3x00054<br>4x00054<br>I:53 | 0,0x0000<br>B:00 00 | | | UINT16<br>R/O | |
| | | LED2:Last diced random value for output C: 0->0,00% | | | | |
| LED3:OUTPUT A:<br>RLO7 | 3x00055<br>4x00055<br>I:54 | 0,0x0000<br>B:00 00 | | | UINT16<br>R/O | |
| | | LED3:Last diced random value for output A: 0->0,00% | | | | |
| LED3:OUTPUT B:<br>RLO8 | 3x00056<br>4x00056<br>I:55 | 0,0x0000<br>B:00 00 | | | UINT16<br>R/O | |
| | | LED3:Last diced random value for output B: 0->0,00% | | | | |
| LED3:OUTPUT C:<br>RLO9 | 3x00057<br>4x00057<br>I:56 | 0,0x0000<br>B:00 00 | | | UINT16<br>R/O | |
| | | LED3:Last diced random value for output C: 0->0,00% | | | | |
| LED4:OUTPUT A:<br>RLO10 | 3x00058<br>4x00058<br>I:57 | 0,0x0000<br>B:00 00 | | | UINT16<br>R/O | |
| | | LED4:Last diced random value for output A: 0->0,00% | | | | |
| LED4:OUTPUT B:<br>RLO11 | 3x00059<br>4x00059<br>I:58 | 0,0x0000<br>B:00 00 | | | UINT16<br>R/O | |
| | | LED4:Last diced random value for output B: 0->0,00% | | | | |
| LED4:OUTPUT C:<br>RLO12 | 3x00060<br>4x00060<br>I:59 | 0,0x0000<br>B:00 00 | | | UINT16<br>R/O | |
| | | LED4:Last diced random value for output C: 0->0,00% | | | | |

 

| Register NAME<br>Command NAME | MODBUS<br>Register<br>ASCII<br>Command | Register VALUE<br>ASCII Command | NEW REAL<br>VALUE | NEW<br>VALUE | DATA TYPE | DO<br>WRITE |
|---|---|---|---|---|---|---|
| | | | | | | |
| LED OUTPUTS: RGB SETPOINTS | | | | | | |
| LED1:OUTPUT A:RGB RED<br>LO1 | 3x01001<br>4x01001<br>I:1000 | 0,0x0000<br>B:00 00 | 1000 | 10,0 | UINT16<br>R/W | YES |
| | | LED1:Current RGB RED setpoint for PWM output A: 0,00% -> 0 | | | | |
| Current RGB RED set point of LED group LEDx PWM output 1.<br>0...10000 for 0% to 100.00% RGB RED in %*100<br><br>If you write onto this register, you define a new RGB RED set point value for the PWM output | | | | | | |
| LED1:OUTPUT B:RGB GREEN<br>LO2 | 3x01002<br>4x01002<br>I:1001 | 10000,0x2710<br>B:27 10 | 1000 | 10,0 | UINT16<br>R/W | YES |
| | | LED1:Current RGB GREEN setpoint for PWM output B: 100,00% -> 4095 | | | | |
| Current RGB GREEN set point of LED group LEDx PWM output 2.<br>0...10000 for 0% to 100.00% RGB GREEN in %*100<br><br>If you write onto this register, you define a new RGB GREEN set point value for the PWM output | | | | | | |
| LED1:OUTPUT C:RGB BLUE<br>LO3 | 3x01003<br>4x01003<br>I:1002 | 94,0x005E<br>B:00 5E | 1000 | 10,0 | UINT16<br>R/W | YES |
| | | LED1:Current RGB BLUE setpoint for PWM output C: 0,94% -> 38 | | | | |
| Current RGB BLUE set point of LED group LEDx PWM output 3.<br>0...10000 for 0% to 100.00% RGB BLUE in %*100<br><br>If you write onto this register, you define a new RGB BLUE set point value for the PWM output | | | | | | |
| LED2:OUTPUT A:RGB RED<br>LO4 | 3x01004<br>4x01004<br>I:1003 | 0,0x0000<br>B:00 00 | 1000 | 10,0 | UINT16<br>R/W | YES |
| | | LED2:Current RGB RED setpoint for PWM output A: 0,00% -> 0 | | | | |
| LED2:OUTPUT B:RGB GREEN<br>LO5 | 3x01005<br>4x01005<br>I:1004 | 0,0x0000<br>B:00 00 | 1000 | 10,0 | UINT16<br>R/W | YES |
| | | LED2:Current RGB GREEN setpoint for PWM output B: 0,00% -> 0 | | | | |
| LED2:OUTPUT C:RGB BLUE<br>LO6 | 3x01006<br>4x01006<br>I:1005 | 0,0x0000<br>B:00 00 | 1000 | 10,0 | UINT16<br>R/W | YES |
| | | LED2:Current RGB BLUE setpoint for PWM output C: 0,00% -> 0 | | | | |
| LED3:OUTPUT A:RGB RED<br>LO7 | 3x01007<br>4x01007<br>I:1006 | 0,0x0000<br>B:00 00 | 1000 | 10,0 | UINT16<br>R/W | YES |
| | | LED3:Current RGB RED setpoint for PWM output A: 0,00% -> 0 | | | | |

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|---|---|---|---|---|---|---|
| LED3:OUTPUT B:RGB GREEN<br>LO8 | 3x01008<br>4x01008<br>I:1007 | 0,0x0000<br>B:00 00 | 1000 | 10,0 | UINT16<br>R/W | YES |
| | | LED3:Current RGB GREEN setpoint for PWM output B: 0,00% -> 0 | | | | |
| LED3:OUTPUT C:RGB BLUE<br>LO9 | 3x01009<br>4x01009<br>I:1008 | 0,0x0000<br>B:00 00 | 1000 | 10,0 | UINT16<br>R/W | YES |
| | | LED3:Current RGB BLUE setpoint for PWM output C: 0,00% -> 0 | | | | |
| LED4:OUTPUT A:RGB RED<br>LO10 | 3x01010<br>4x01010<br>I:1009 | 0,0x0000<br>B:00 00 | 1000 | 10,0 | UINT16<br>R/W | YES |
| | | LED4:Current RGB RED setpoint for PWM output A: 0,00% -> 0 | | | | |
| LED4:OUTPUT B:RGB GREEN<br>LO11 | 3x01011<br>4x01011<br>I:1010 | 0,0x0000<br>B:00 00 | 1000 | 10,0 | UINT16<br>R/W | YES |
| | | LED4:Current RGB GREEN setpoint for PWM output B: 0,00% -> 0 | | | | |
| LED4:OUTPUT C:RGB BLUE<br>LO12 | 3x01012<br>4x01012<br>I:1011 | 0,0x0000<br>B:00 00 | 1000 | 10,0 | UINT16<br>R/W | YES |
| | | LED4:Current RGB BLUE setpoint for PWM output C: 0,00% -> 0 | | | | |
| LED OUTPUTS: HSV SETPOINTS | | | | | | |
| LED1:OUTPUT A:HSV HUE<br>LO1-LO3 | 3x01013<br>4x01013<br>I:1012 | 12056,0x2F18<br>B:2F 18 | 36000 | 360,0 | UINT16<br>R/W | YES |
| | | LED1:Current HSV HUE setpoint for PWM outputs A-C: 120,56° | | | | |
| Current HSV HUE set point of LED group LEDx PWM outputs 1-3.<br>0...36000 for 0° to 360.00° for hue in degrees*100<br><br>If you write onto this register, you define a new HSV HUE set point value for the PWM outputs 1-3 | | | | | | |
| LED1:OUTPUT B:HSV SATURATION<br>LO1-LO3 | 3x01014<br>4x01014<br>I:1013 | 10000,0x2710<br>B:27 10 | 10000 | 100,0 | UINT16<br>R/W | YES |
| | | LED1:Current HSV SATURATION setpoint for PWM outputs A-C: 100,00% | | | | |
| Current HSV SATURATION set point of LED group LEDx PWM outputs 1-3.<br>0...10000 for 0% to 100.00% for saturation in percent*100<br><br>If you write onto this register, you define a new HSV SATURATION set point value for the PWM outputs 1-3 | | | | | | |
| LED1:OUTPUT C:HSV VALUE<br>LO1-LO3 | 3x01015<br>4x01015<br>I:1014 | 10000,0x2710<br>B:27 10 | 10000 | 100,0 | UINT16<br>R/W | YES |
| | | LED1:Current HSV VALUE setpoint for PWM outputs A-C: 100,00% | | | | |
| Current HSV VALUE set point of LED group LEDx PWM outputs 1-3.<br>0...10000 for 0% to 100.00% for value in percent*100<br><br>If you write onto this register, you define a new HSV VALUE set point value for the PWM outputs 1-3 | | | | | | |

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| LED2:OUTPUT A:HSV HUE<br>LO4-LO6 | 3x01016<br>4x01016<br>I:1015 | 0,0x0000<br>B:00 00 | 36000 | 360,0 | UINT16<br>R/W | YES |
| | | LED2:Current HSV HUE setpoint for PWM outputs A-C: 0,00° | | | | |
| LED2:OUTPUT B:HSV SATURATION<br>LO4-LO6 | 3x01017<br>4x01017<br>I:1016 | 0,0x0000<br>B:00 00 | 10000 | 100,0 | UINT16<br>R/W | YES |
| | | LED2:Current HSV SATURATION setpoint for PWM outputs A-C: 0,00% | | | | |
| LED2:OUTPUT C:HSV VALUE<br>LO4-LO6 | 3x01018<br>4x01018<br>I:1017 | 0,0x0000<br>B:00 00 | 10000 | 100,0 | UINT16<br>R/W | YES |
| | | LED2:Current HSV VALUE setpoint for PWM outputs A-C: 0,00% | | | | |
| LED3:OUTPUT A:HSV HUE<br>LO7-LO9 | 3x01019<br>4x01019<br>I:1018 | 0,0x0000<br>B:00 00 | 36000 | 360,0 | UINT16<br>R/W | YES |
| | | LED3:Current HSV HUE setpoint for PWM outputs A-C: 0,00° | | | | |
| LED3:OUTPUT B:HSV SATURATION<br>LO7-LO9 | 3x01020<br>4x01020<br>I:1019 | 0,0x0000<br>B:00 00 | 10000 | 100,0 | UINT16<br>R/W | YES |
| | | LED3:Current HSV SATURATION setpoint for PWM outputs A-C: 0,00% | | | | |
| LED3:OUTPUT C:HSV VALUE<br>LO7-LO9 | 3x01021<br>4x01021<br>I:1020 | 0,0x0000<br>B:00 00 | 10000 | 100,0 | UINT16<br>R/W | YES |
| | | LED3:Current HSV VALUE setpoint for PWM outputs A-C: 0,00% | | | | |
| LED4:OUTPUT A:HSV HUE<br>LO10-LO12 | 3x01022<br>4x01022<br>I:1021 | 0,0x0000<br>B:00 00 | 36000 | 360,0 | UINT16<br>R/W | YES |
| | | LED4:Current HSV HUE setpoint for PWM outputs A-C: 0,00° | | | | |
| LED4:OUTPUT B:HSV SATURATION<br>LO10-LO12 | 3x01023<br>4x01023<br>I:1022 | 0,0x0000<br>B:00 00 | 10000 | 100,0 | UINT16<br>R/W | YES |
| | | LED4:Current HSV SATURATION setpoint for PWM outputs A-C: 0,00% | | | | |
| LED4:OUTPUT C:HSV VALUE<br>LO10-LO12 | 3x01024<br>4x01024<br>I:1023 | 0,0x0000<br>B:00 00 | 10000 | 100,0 | UINT16<br>R/W | YES |
| | | LED4:Current HSV VALUE setpoint for PWM outputs A-C: 0,00% | | | | |
| | | | | | | |
| LED OUTPUTS: RGB SETPOINTS | | | | | | |
| LED1:OUTPUT A:RGB RED<br>LO1 | 3x02001<br>4x02001<br>I:2000 | 0,0x00000000<br>B:00 00 00 00 | 1000 | 10,0 | UINT32<br>R/W | YES |
| | | LED1:Current RGB RED setpoint for PWM output A: 0,000% -> 0 | | | | |

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|---|---|---|---|---|---|---|
| Current RGB RED set point of LED group LEDx PWM output 1.<br>0...100000 for 0% to 100.000% RGB RED in %*1000<br><br>If you write onto this register, you define a new RGB RED set point value for the PWM output | | | | | | |
| LED1:OUTPUT B:RGB GREEN<br>LO2 | 3x02003<br>4x02003<br>I:2002 | 100000,0x000186A0<br>B:00 01 86 A0 | 10000 | 10,0 | UINT32<br>R/W | YES |
| | | LED1:Current RGB GREEN setpoint for PWM output B: 1,000% -> 4095 | | | | |
| Current RGB GREEN set point of LED group LEDx PWM output 2.<br>0...100000 for 0% to 100.000% RGB GREEN in %*1000<br><br>If you write onto this register, you define a new RGB GREEN set point value for the PWM output | | | | | | |
| LED1:OUTPUT C:RGB BLUE<br>LO3 | 3x02005<br>4x02005<br>I:2004 | 944,0x000003B0<br>B:00 00 03 B0 | 10000 | 10,0 | UINT32<br>R/W | YES |
| | | LED1:Current RGB BLUE setpoint for PWM output C: 0,009% -> 39 | | | | |
| Current RGB BLUE set point of LED group LEDx PWM output 3.<br>0...100000 for 0% to 100.000% RGB BLUE in %*1000<br><br>If you write onto this register, you define a new RGB BLUE set point value for the PWM output | | | | | | |
| LED2:OUTPUT A:RGB RED<br>LO4 | 3x02007<br>4x02007<br>I:2006 | 0,0x00000000<br>B:00 00 00 00 | 10000 | 10,0 | UINT32<br>R/W | YES |
| | | LED2:Current RGB RED setpoint for PWM output A: 0,000% -> 0 | | | | |
| LED2:OUTPUT B:RGB GREEN<br>LO5 | 3x02009<br>4x02009<br>I:2008 | 0,0x00000000<br>B:00 00 00 00 | 10000 | 10,0 | UINT32<br>R/W | YES |
| | | LED2:Current RGB GREEN setpoint for PWM output B: 0,000% -> 0 | | | | |
| LED2:OUTPUT C:RGB BLUE<br>LO6 | 3x02011<br>4x02011<br>I:2010 | 0,0x00000000<br>B:00 00 00 00 | 10000 | 10,0 | UINT32<br>R/W | YES |
| | | LED2:Current RGB BLUE setpoint for PWM output C: 0,000% -> 0 | | | | |
| LED3:OUTPUT A:RGB RED<br>LO7 | 3x02013<br>4x02013<br>I:2012 | 0,0x00000000<br>B:00 00 00 00 | 10000 | 10,0 | UINT32<br>R/W | YES |
| | | LED3:Current RGB RED setpoint for PWM output A: 0,000% -> 0 | | | | |
| LED3:OUTPUT B:RGB GREEN<br>LO8 | 3x02015<br>4x02015<br>I:2014 | 0,0x00000000<br>B:00 00 00 00 | 10000 | 10,0 | UINT32<br>R/W | YES |
| | | LED3:Current RGB GREEN setpoint for PWM output B: 0,000% -> 0 | | | | |
| LED3:OUTPUT C:RGB BLUE<br>LO9 | 3x02017<br>4x02017<br>I:2016 | 0,0x00000000<br>B:00 00 00 00 | 10000 | 10,0 | UINT32<br>R/W | YES |
| | | LED3:Current RGB BLUE setpoint for PWM output C: 0,000% -> 0 | | | | |

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|---|---|---|---|---|---|---|
| LED4:OUTPUT A:RGB RED<br>LO10 | 3x02019<br>4x02019<br>I:2018 | 0,0x00000000<br>B:00 00 00 00 | 10000 | 10,0 | UINT32<br>R/W | YES |
| | | LED4:Current RGB RED setpoint for PWM output A: 0,000% -> 0 | | | | |
| LED4:OUTPUT B:RGB GREEN<br>LO11 | 3x02021<br>4x02021<br>I:2020 | 0,0x00000000<br>B:00 00 00 00 | 10000 | 10,0 | UINT32<br>R/W | YES |
| | | LED4:Current RGB GREEN setpoint for PWM output B: 0,000% -> 0 | | | | |
| LED4:OUTPUT C:RGB BLUE<br>LO12 | 3x02023<br>4x02023<br>I:2022 | 0,0x00000000<br>B:00 00 00 00 | 10000 | 10,0 | UINT32<br>R/W | YES |
| | | LED4:Current RGB BLUE setpoint for PWM output C: 0,000% -> 0 | | | | |
| LED OUTPUTS: HSV SETPOINTS | | | | | | |
| LED1:OUTPUT A:HSV HUE<br>LO1-LO3 | 3x02025<br>4x02025<br>I:2024 | 120567000,0x072FB4D8<br>B:07 2F B4 D8 | 360000000 | 360,0 | UINT32<br>R/W | YES |
| | | LED1:Current HSV HUE setpoint for PWM outputs A-C: 120,567000° | | | | |
| Current HSV HUE set point of LED group LEDx PWM outputs 1-3.<br>0...360000000 for 0° to 360.000000° for hue in degrees*1000000<br><br>If you write onto this register, you define a new HSV HUE set point value for the PWM outputs 1-3 | | | | | | |
| LED1:OUTPUT B:HSV SATURATION<br>LO1-LO3 | 3x02027<br>4x02027<br>I:2026 | 100000000,0x05F5E100<br>B:05 F5 E1 00 | 100000000 | 100,0 | UINT32<br>R/W | YES |
| | | LED1:Current HSV SATURATION setpoint for PWM outputs A-C: 100,000000% | | | | |
| Current HSV SATURATION set point of LED group LEDx PWM outputs 1-3.<br>0...100000000 for 0% to 100.000000% for saturation in percent*1000000<br><br>If you write onto this register, you define a new HSV SATURATION set point value for the PWM outputs 1-3 | | | | | | |
| LED1:OUTPUT C:HSV VALUE<br>LO1-LO3 | 3x02029<br>4x02029<br>I:2028 | 100000000,0x05F5E100<br>B:05 F5 E1 00 | 100000000 | 100,0 | UINT32<br>R/W | YES |
| | | LED1:Current HSV VALUE setpoint for PWM outputs A-C: 100,000000% | | | | |
| Current HSV VALUE set point of LED group LEDx PWM outputs 1-3.<br>0...100000000 for 0% to 100.000000% for value in percent*1000000<br><br>If you write onto this register, you define a new HSV VALUE set point value for the PWM outputs 1-3 | | | | | | |
| LED2:OUTPUT A:HSV HUE<br>LO4-LO6 | 3x02031<br>4x02031<br>I:2030 | 0,0x00000000<br>B:00 00 00 00 | 360000000 | 360,0 | UINT32<br>R/W | YES |
| | | LED2:Current HSV HUE setpoint for PWM outputs A-C: 0,000000° | | | | |
| LED2:OUTPUT B:HSV SATURATION<br>LO4-LO6 | 3x02033<br>4x02033<br>I:2032 | 0,0x00000000<br>B:00 00 00 00 | 100000000 | 100,0 | UINT32<br>R/W | YES |
| | | LED2:Current HSV SATURATION setpoint for PWM outputs A-C: 0,000000% | | | | |

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|---|---|---|---|---|---|---|
| LED2:OUTPUT C:HSV VALUE<br>LO4-LO6 | 3x02035<br>4x02035<br>I:2034 | 0,0x00000000<br>B:00 00 00 00 | 100000000 | 100,0 | UINT32<br>R/W | YES |
| | | LED2:Current HSV VALUE setpoint for PWM outputs A-C: 0,000000% | | | | |
| LED3:OUTPUT A:HSV HUE<br>LO7-LO9 | 3x02037<br>4x02037<br>I:2036 | 0,0x00000000<br>B:00 00 00 00 | 360000000 | 360,0 | UINT32<br>R/W | YES |
| | | LED3:Current HSV HUE setpoint for PWM outputs A-C: 0,000000° | | | | |
| LED3:OUTPUT B:HSV SATURATION<br>LO7-LO9 | 3x02039<br>4x02039<br>I:2038 | 0,0x00000000<br>B:00 00 00 00 | 100000000 | 100,0 | UINT32<br>R/W | YES |
| | | LED3:Current HSV SATURATION setpoint for PWM outputs A-C: 0,000000% | | | | |
| LED3:OUTPUT C:HSV VALUE<br>LO7-LO9 | 3x02041<br>4x02041<br>I:2040 | 0,0x00000000<br>B:00 00 00 00 | 100000000 | 100,0 | UINT32<br>R/W | YES |
| | | LED3:Current HSV VALUE setpoint for PWM outputs A-C: 0,000000% | | | | |
| LED4:OUTPUT A:HSV HUE<br>LO10-LO12 | 3x02043<br>4x02043<br>I:2042 | 0,0x00000000<br>B:00 00 00 00 | 360000000 | 360,0 | UINT32<br>R/W | YES |
| | | LED4:Current HSV HUE setpoint for PWM outputs A-C: 0,000000° | | | | |
| LED4:OUTPUT B:HSV SATURATION<br>LO10-LO12 | 3x02045<br>4x02045<br>I:2044 | 0,0x00000000<br>B:00 00 00 00 | 100000000 | 100,0 | UINT32<br>R/W | YES |
| | | LED4:Current HSV SATURATION setpoint for PWM outputs A-C: 0,000000% | | | | |
| LED4:OUTPUT C:HSV VALUE<br>LO10-LO12 | 3x02047<br>4x02047<br>I:2046 | 0,0x00000000<br>B:00 00 00 00 | 100000000 | 100,0 | UINT32<br>R/W | YES |
| | | LED4:Current HSV VALUE setpoint for PWM outputs A-C: 0,000000% | | | | |
| | | | | | | |
| LED OUTPUTS: RGB SETPOINTS | | | | | | |
| LED1:OUTPUT A:RGB RED<br>LO1 | 3x03001<br>4x03001<br>I:3000 | 0,0x00000000<br>B:00 00 00 00 | 1000 | 10,0 | UINT32R<br>R/W | YES |
| | | LED1:Current RGB RED setpoint for PWM output A: 0,000% -> 0 | | | | |
| Current RGB RED set point of LED group LEDx PWM output 1.<br>0...100000 for 0% to 100.000% RGB RED in %*1000<br><br>If you write onto this register, you define a new RGB RED set point value for the PWM output | | | | | | |
| LED1:OUTPUT B:RGB GREEN<br>LO2 | 3x03003<br>4x03003<br>I:3002 | 100000,0x000186A0<br>B:86 A0 00 01 | 10000 | 10,0 | UINT32R<br>R/W | YES |
| | | LED1:Current RGB GREEN setpoint for PWM output B: 1,000% -> 4095 | | | | |

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|---|---|---|---|---|---|---|
| Current RGB GREEN set point of LED group LEDx PWM output 2.<br>0...100000 for 0% to 100.000% RGB GREEN in %*1000<br><br>If you write onto this register, you define a new RGB GREEN set point value for the PWM output | | | | | | |
| LED1:OUTPUT C:RGB BLUE<br>LO3 | 3x03005<br>4x03005<br>I:3004 | 944,0x000003B0<br>B:03 B0 00 00 | 10000 | 10,0 | UINT32R<br>R/W | YES |
| | | LED1:Current RGB BLUE setpoint for PWM output C: 0,009% -> 39 | | | | |
| Current RGB BLUE set point of LED group LEDx PWM output 3.<br>0...100000 for 0% to 100.000% RGB BLUE in %*1000<br><br>If you write onto this register, you define a new RGB BLUE set point value for the PWM output | | | | | | |
| LED2:OUTPUT A:RGB RED<br>LO4 | 3x03007<br>4x03007<br>I:3006 | 0,0x00000000<br>B:00 00 00 00 | 10000 | 10,0 | UINT32R<br>R/W | YES |
| | | LED2:Current RGB RED setpoint for PWM output A: 0,000% -> 0 | | | | |
| LED2:OUTPUT B:RGB GREEN<br>LO5 | 3x03009<br>4x03009<br>I:3008 | 0,0x00000000<br>B:00 00 00 00 | 10000 | 10,0 | UINT32R<br>R/W | YES |
| | | LED2:Current RGB GREEN setpoint for PWM output B: 0,000% -> 0 | | | | |
| LED2:OUTPUT C:RGB BLUE<br>LO6 | 3x03011<br>4x03011<br>I:3010 | 0,0x00000000<br>B:00 00 00 00 | 10000 | 10,0 | UINT32R<br>R/W | YES |
| | | LED2:Current RGB BLUE setpoint for PWM output C: 0,000% -> 0 | | | | |
| LED3:OUTPUT A:RGB RED<br>LO7 | 3x03013<br>4x03013<br>I:3012 | 0,0x00000000<br>B:00 00 00 00 | 10000 | 10,0 | UINT32R<br>R/W | YES |
| | | LED3:Current RGB RED setpoint for PWM output A: 0,000% -> 0 | | | | |
| LED3:OUTPUT B:RGB GREEN<br>LO8 | 3x03015<br>4x03015<br>I:3014 | 0,0x00000000<br>B:00 00 00 00 | 10000 | 10,0 | UINT32R<br>R/W | YES |
| | | LED3:Current RGB GREEN setpoint for PWM output B: 0,000% -> 0 | | | | |
| LED3:OUTPUT C:RGB BLUE<br>LO9 | 3x03017<br>4x03017<br>I:3016 | 0,0x00000000<br>B:00 00 00 00 | 10000 | 10,0 | UINT32R<br>R/W | YES |
| | | LED3:Current RGB BLUE setpoint for PWM output C: 0,000% -> 0 | | | | |
| LED4:OUTPUT A:RGB RED<br>LO10 | 3x03019<br>4x03019<br>I:3018 | 0,0x00000000<br>B:00 00 00 00 | 10000 | 10,0 | UINT32R<br>R/W | YES |
| | | LED4:Current RGB RED setpoint for PWM output A: 0,000% -> 0 | | | | |
| LED4:OUTPUT B:RGB GREEN<br>LO11 | 3x03021<br>4x03021<br>I:3020 | 0,0x00000000<br>B:00 00 00 00 | 10000 | 10,0 | UINT32R<br>R/W | YES |
| | | LED4:Current RGB GREEN setpoint for PWM output B: 0,000% -> 0 | | | | |

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|---|---|---|---|---|---|---|
| LED4:OUTPUT C:RGB BLUE<br>LO12 | 3x03023<br>4x03023<br>I:3022 | 0,0x00000000<br>B:00 00 00 00 | 10000 | 10,0 | UINT32R<br>R/W | YES |
| | | LED4:Current RGB BLUE setpoint for PWM output C: 0,000% -> 0 | | | | |
| LED OUTPUTS: HSV SETPOINTS | | | | | | |
| LED1:OUTPUT A:HSV HUE<br>LO1-LO3 | 3x03025<br>4x03025<br>I:3024 | 120567000,0x072FB4D8<br>B:B4 D8 07 2F | 360000000 | 360,0 | UINT32R<br>R/W | YES |
| | | LED1:Current HSV HUE setpoint for PWM outputs A-C: 120,567000° | | | | |
| Current HSV HUE set point of LED group LEDx PWM outputs 1-3.<br>0...360000000 for 0° to 360.000000° for hue in degrees*1000000<br><br>If you write onto this register, you define a new HSV HUE set point value for the PWM outputs 1-3 | | | | | | |
| LED1:OUTPUT B:HSV SATURATION<br>LO1-LO3 | 3x03027<br>4x03027<br>I:3026 | 100000000,0x05F5E100<br>B:E1 00 05 F5 | 100000000 | 100,0 | UINT32R<br>R/W | YES |
| | | LED1:Current HSV SATURATION setpoint for PWM outputs A-C: 100,000000% | | | | |
| Current HSV SATURATION set point of LED group LEDx PWM outputs 1-3.<br>0...100000000 for 0% to 100.000000% for saturation in percent*1000000<br><br>If you write onto this register, you define a new HSV SATURATION set point value for the PWM outputs 1-3 | | | | | | |
| LED1:OUTPUT C:HSV VALUE<br>LO1-LO3 | 3x03029<br>4x03029<br>I:3028 | 100000000,0x05F5E100<br>B:E1 00 05 F5 | 100000000 | 100,0 | UINT32R<br>R/W | YES |
| | | LED1:Current HSV VALUE setpoint for PWM outputs A-C: 100,000000% | | | | |
| Current HSV VALUE set point of LED group LEDx PWM outputs 1-3.<br>0...100000000 for 0% to 100.000000% for value in percent*1000000<br><br>If you write onto this register, you define a new HSV VALUE set point value for the PWM outputs 1-3 | | | | | | |
| LED2:OUTPUT A:HSV HUE<br>LO4-LO6 | 3x03031<br>4x03031<br>I:3030 | 0,0x00000000<br>B:00 00 00 00 | 360000000 | 360,0 | UINT32R<br>R/W | YES |
| | | LED2:Current HSV HUE setpoint for PWM outputs A-C: 0,000000° | | | | |
| LED2:OUTPUT B:HSV SATURATION<br>LO4-LO6 | 3x03033<br>4x03033<br>I:3032 | 0,0x00000000<br>B:00 00 00 00 | 100000000 | 100,0 | UINT32R<br>R/W | YES |
| | | LED2:Current HSV SATURATION setpoint for PWM outputs A-C: 0,000000% | | | | |
| LED2:OUTPUT C:HSV VALUE<br>LO4-LO6 | 3x03035<br>4x03035<br>I:3034 | 0,0x00000000<br>B:00 00 00 00 | 100000000 | 100,0 | UINT32R<br>R/W | YES |
| | | LED2:Current HSV VALUE setpoint for PWM outputs A-C: 0,000000% | | | | |
| LED3:OUTPUT A:HSV HUE<br>LO7-LO9 | 3x03037<br>4x03037<br>I:3036 | 0,0x00000000<br>B:00 00 00 00 | 360000000 | 360,0 | UINT32R<br>R/W | YES |
| | | LED3:Current HSV HUE setpoint for PWM outputs A-C: 0,000000° | | | | |

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|---|---|---|---|---|---|---|
| LED3:OUTPUT B:HSV SATURATION<br>LO7-LO9 | 3x03039<br>4x03039<br>I:3038 | 0,0x00000000<br>B:00 00 00 00 | 100000000 | 100,0 | UINT32R<br>R/W | YES |
| | | LED3:Current HSV SATURATION setpoint for PWM outputs A-C: 0,000000% | | | | |
| LED3:OUTPUT C:HSV VALUE<br>LO7-LO9 | 3x03041<br>4x03041<br>I:3040 | 0,0x00000000<br>B:00 00 00 00 | 100000000 | 100,0 | UINT32R<br>R/W | YES |
| | | LED3:Current HSV VALUE setpoint for PWM outputs A-C: 0,000000% | | | | |
| LED4:OUTPUT A:HSV HUE<br>LO10-LO12 | 3x03043<br>4x03043<br>I:3042 | 0,0x00000000<br>B:00 00 00 00 | 360000000 | 360,0 | UINT32R<br>R/W | YES |
| | | LED4:Current HSV HUE setpoint for PWM outputs A-C: 0,000000° | | | | |
| LED4:OUTPUT B:HSV SATURATION<br>LO10-LO12 | 3x03045<br>4x03045<br>I:3044 | 0,0x00000000<br>B:00 00 00 00 | 100000000 | 100,0 | UINT32R<br>R/W | YES |
| | | LED4:Current HSV SATURATION setpoint for PWM outputs A-C: 0,000000% | | | | |
| LED4:OUTPUT C:HSV VALUE<br>LO10-LO12 | 3x03047<br>4x03047<br>I:3046 | 0,0x00000000<br>B:00 00 00 00 | 100000000 | 100,0 | UINT32R<br>R/W | YES |
| | | LED4:Current HSV VALUE setpoint for PWM outputs A-C: 0,000000% | | | | |
| | | | | | | |
| LED OUTPUTS: RGB SETPOINTS | | | | | | |
| LED1:OUTPUT A:RGB RED<br>LO1 | 3x04001<br>4x04001<br>I:4000 | 0.000000,0x00000000<br>B:00 00 00 00 | | 10,0 | FLOAT32<br>R/W | YES |
| | | LED1:Current RGB RED setpoint for PWM output A: 0,00000% -> 0 | | | | |
| Current RGB RED set point of LED group LEDx PWM output 1.<br>0% to 100% RGB RED<br><br>If you write onto this register, you define a new RGB RED set point value for the PWM output | | | | | | |
| LED1:OUTPUT B:RGB GREEN<br>LO2 | 3x04003<br>4x04003<br>I:4002 | 100.000000,0x42C80000<br>B:42 C8 00 00 | | 10,0 | FLOAT32<br>R/W | YES |
| | | LED1:Current RGB GREEN setpoint for PWM output B: 100,00000% -> 4095 | | | | |
| Current RGB GREEN set point of LED group LEDx PWM output 2.<br>0% to 100% RGB GREEN<br><br>If you write onto this register, you define a new RGB GREEN set point value for the PWM output | | | | | | |
| LED1:OUTPUT C:RGB BLUE<br>LO3 | 3x04005<br>4x04005<br>I:4004 | 0.944000,0x3F71A9FC<br>B:3F 71 A9 FC | | 10,0 | FLOAT32<br>R/W | YES |
| | | LED1:Current RGB BLUE setpoint for PWM output C: 0,94400% -> 39 | | | | |
| Current RGB BLUE set point of LED group LEDx PWM output 3.<br>0% to 100% RGB BLUE<br><br>If you write onto this register, you define a new RGB BLUE set point value for the PWM output | | | | | | |

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|---|---|---|---|---|---|---|
| LED2:OUTPUT A:RGB RED<br>LO4 | 3x04007<br>4x04007<br>I:4006 | 0.000000,0x00000000<br>B:00 00 00 00 | | 10,0 | FLOAT32<br>R/W | YES |
| | | LED2:Current RGB RED setpoint for PWM output A: 0,00000% -> 0 | | | | |
| LED2:OUTPUT B:RGB GREEN<br>LO5 | 3x04009<br>4x04009<br>I:4008 | 0.000000,0x00000000<br>B:00 00 00 00 | | 10,0 | FLOAT32<br>R/W | YES |
| | | LED2:Current RGB GREEN setpoint for PWM output B: 0,00000% -> 0 | | | | |
| LED2:OUTPUT C:RGB BLUE<br>LO6 | 3x04011<br>4x04011<br>I:4010 | 0.000000,0x00000000<br>B:00 00 00 00 | | 10,0 | FLOAT32<br>R/W | YES |
| | | LED2:Current RGB BLUE setpoint for PWM output C: 0,00000% -> 0 | | | | |
| LED3:OUTPUT A:RGB RED<br>LO7 | 3x04013<br>4x04013<br>I:4012 | 0.000000,0x00000000<br>B:00 00 00 00 | | 10,0 | FLOAT32<br>R/W | YES |
| | | LED3:Current RGB RED setpoint for PWM output A: 0,00000% -> 0 | | | | |
| LED3:OUTPUT B:RGB GREEN<br>LO8 | 3x04015<br>4x04015<br>I:4014 | 0.000000,0x00000000<br>B:00 00 00 00 | | 10,0 | FLOAT32<br>R/W | YES |
| | | LED3:Current RGB GREEN setpoint for PWM output B: 0,00000% -> 0 | | | | |
| LED3:OUTPUT C:RGB BLUE<br>LO9 | 3x04017<br>4x04017<br>I:4016 | 0.000000,0x00000000<br>B:00 00 00 00 | | 10,0 | FLOAT32<br>R/W | YES |
| | | LED3:Current RGB BLUE setpoint for PWM output C: 0,00000% -> 0 | | | | |
| LED4:OUTPUT A:RGB RED<br>LO10 | 3x04019<br>4x04019<br>I:4018 | 0.000000,0x00000000<br>B:00 00 00 00 | | 10,0 | FLOAT32<br>R/W | YES |
| | | LED4:Current RGB RED setpoint for PWM output A: 0,00000% -> 0 | | | | |
| LED4:OUTPUT B:RGB GREEN<br>LO11 | 3x04021<br>4x04021<br>I:4020 | 0.000000,0x00000000<br>B:00 00 00 00 | | 10,0 | FLOAT32<br>R/W | YES |
| | | LED4:Current RGB GREEN setpoint for PWM output B: 0,00000% -> 0 | | | | |
| LED4:OUTPUT C:RGB BLUE<br>LO12 | 3x04023<br>4x04023<br>I:4022 | 0.000000,0x00000000<br>B:00 00 00 00 | | 10,0 | FLOAT32<br>R/W | YES |
| | | LED4:Current RGB BLUE setpoint for PWM output C: 0,00000% -> 0 | | | | |
| LED OUTPUTS: HSV SETPOINTS | | | | | | |
| LED1:OUTPUT A:HSV HUE<br>LO1-LO3 | 3x04025<br>4x04025<br>I:4024 | 120.567001,0x42F1224E<br>B:42 F1 22 4E | | 360,0 | FLOAT32<br>R/W | YES |
| | | LED1:Current HSV HUE setpoint for PWM outputs A-C: 120,567001° | | | | |
| Current HSV HUE set point of LED group LEDx PWM outputs 1-3.<br>0 to 360° for hue in degrees<br><br>If you write onto this register, you define a new HSV HUE set point value for the PWM outputs 1-3 | | | | | | |

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|---|---|---|---|---|---|---|
| LED1:OUTPUT B:HSV SATURATION<br>LO1-LO3 | 3x04027<br>4x04027<br>I:4026 | 100.000000,0x42C80000<br>B:42 C8 00 00 | | 100,0 | FLOAT32<br>R/W | YES |
| | | LED1:Current HSV SATURATION setpoint for PWM outputs A-C: 100,000000% | | | | |
| Current HSV SATURATION set point of LED group LEDx PWM outputs 1-3.<br>0% 100% for saturation in percent<br><br>If you write onto this register, you define a new HSV SATURATION set point value for the PWM outputs 1-3 | | | | | | |
| LED1:OUTPUT C:HSV VALUE<br>LO1-LO3 | 3x04029<br>4x04029<br>I:4028 | 100.000000,0x42C80000<br>B:42 C8 00 00 | | 100,0 | FLOAT32<br>R/W | YES |
| | | LED1:Current HSV VALUE setpoint for PWM outputs A-C: 100,000000% | | | | |
| Current HSV VALUE set point of LED group LEDx PWM outputs 1-3.<br>0% to 100% for value in percent<br><br>If you write onto this register, you define a new HSV VALUE set point value for the PWM outputs 1-3 | | | | | | |
| LED2:OUTPUT A:HSV HUE<br>LO4-LO6 | 3x04031<br>4x04031<br>I:4030 | 0.000000,0x00000000<br>B:00 00 00 00 | | 360,0 | FLOAT32<br>R/W | YES |
| | | LED2:Current HSV HUE setpoint for PWM outputs A-C: 0,000000° | | | | |
| LED2:OUTPUT B:HSV SATURATION<br>LO4-LO6 | 3x04033<br>4x04033<br>I:4032 | 0.000000,0x00000000<br>B:00 00 00 00 | | 100,0 | FLOAT32<br>R/W | YES |
| | | LED2:Current HSV SATURATION setpoint for PWM outputs A-C: 0,000000% | | | | |
| LED2:OUTPUT C:HSV VALUE<br>LO4-LO6 | 3x04035<br>4x04035<br>I:4034 | 0.000000,0x00000000<br>B:00 00 00 00 | | 100,0 | FLOAT32<br>R/W | YES |
| | | LED2:Current HSV VALUE setpoint for PWM outputs A-C: 0,000000% | | | | |
| LED3:OUTPUT A:HSV HUE<br>LO7-LO9 | 3x04037<br>4x04037<br>I:4036 | 0.000000,0x00000000<br>B:00 00 00 00 | | 360,0 | FLOAT32<br>R/W | YES |
| | | LED3:Current HSV HUE setpoint for PWM outputs A-C: 0,000000° | | | | |
| LED3:OUTPUT B:HSV SATURATION<br>LO7-LO9 | 3x04039<br>4x04039<br>I:4038 | 0.000000,0x00000000<br>B:00 00 00 00 | | 100,0 | FLOAT32<br>R/W | YES |
| | | LED3:Current HSV SATURATION setpoint for PWM outputs A-C: 0,000000% | | | | |
| LED3:OUTPUT C:HSV VALUE<br>LO7-LO9 | 3x04041<br>4x04041<br>I:4040 | 0.000000,0x00000000<br>B:00 00 00 00 | | 100,0 | FLOAT32<br>R/W | YES |
| | | LED3:Current HSV VALUE setpoint for PWM outputs A-C: 0,000000% | | | | |
| LED4:OUTPUT A:HSV HUE<br>LO10-LO12 | 3x04043<br>4x04043<br>I:4042 | 0.000000,0x00000000<br>B:00 00 00 00 | | 360,0 | FLOAT32<br>R/W | YES |
| | | LED4:Current HSV HUE setpoint for PWM outputs A-C: 0,000000° | | | | |

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|---|---|---|---|---|---|---|
| LED4:OUTPUT B:HSV SATURATION<br>LO10-LO12 | 3x04045<br>4x04045<br>I:4044 | 0.000000,0x00000000<br>B:00 00 00 00 | | 100,0 | FLOAT32<br>R/W | YES |
| | | LED4:Current HSV SATURATION setpoint for PWM outputs A-C: 0,000000% | | | | |
| LED4:OUTPUT C:HSV VALUE<br>LO10-LO12 | 3x04047<br>4x04047<br>I:4046 | 0.000000,0x00000000<br>B:00 00 00 00 | | 100,0 | FLOAT32<br>R/W | YES |
| | | LED4:Current HSV VALUE setpoint for PWM outputs A-C: 0,000000% | | | | |
| | | | | | | |
| LED OUTPUTS: RGB SETPOINTS | | | | | | |
| LED1:OUTPUT A:RGB RED<br>LO1 | 3x05001<br>4x05001<br>I:5000 | 0.000000,0x00000000<br>B:00 00 00 00 | | 10,0 | FLOAT32R<br>R/W | YES |
| | | LED1:Current RGB RED setpoint for PWM output A: 0,00000% -> 0 | | | | |
| Current RGB RED set point of LED group LEDx PWM output 1.<br>0% to 100% RGB RED<br><br>If you write onto this register, you define a new RGB RED set point value for the PWM output | | | | | | |
| LED1:OUTPUT B:RGB GREEN<br>LO2 | 3x05003<br>4x05003<br>I:5002 | 100.000000,0x42C80000<br>B:00 00 42 C8 | | 10,0 | FLOAT32R<br>R/W | YES |
| | | LED1:Current RGB GREEN setpoint for PWM output B: 100,00000% -> 4095 | | | | |
| Current RGB GREEN set point of LED group LEDx PWM output 2.<br>0% to 100% RGB GREEN<br><br>If you write onto this register, you define a new RGB GREEN set point value for the PWM output | | | | | | |
| LED1:OUTPUT C:RGB BLUE<br>LO3 | 3x05005<br>4x05005<br>I:5004 | 0.944000,0x3F71A9FC<br>B:A9 FC 3F 71 | | 10,0 | FLOAT32R<br>R/W | YES |
| | | LED1:Current RGB BLUE setpoint for PWM output C: 0,94400% -> 39 | | | | |
| Current RGB BLUE set point of LED group LEDx PWM output 3.<br>0% to 100% RGB BLUE<br><br>If you write onto this register, you define a new RGB BLUE set point value for the PWM output | | | | | | |
| LED2:OUTPUT A:RGB RED<br>LO4 | 3x05007<br>4x05007<br>I:5006 | 0.000000,0x00000000<br>B:00 00 00 00 | | 10,0 | FLOAT32R<br>R/W | YES |
| | | LED2:Current RGB RED setpoint for PWM output A: 0,00000% -> 0 | | | | |
| LED2:OUTPUT B:RGB GREEN<br>LO5 | 3x05009<br>4x05009<br>I:5008 | 0.000000,0x00000000<br>B:00 00 00 00 | | 10,0 | FLOAT32R<br>R/W | YES |
| | | LED2:Current RGB GREEN setpoint for PWM output B: 0,00000% -> 0 | | | | |
| LED2:OUTPUT C:RGB BLUE<br>LO6 | 3x05011<br>4x05011<br>I:5010 | 0.000000,0x00000000<br>B:00 00 00 00 | | 10,0 | FLOAT32R<br>R/W | YES |
| | | LED2:Current RGB BLUE setpoint for PWM output C: 0,00000% -> 0 | | | | |

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|---|---|---|---|---|---|---|
| LED3:OUTPUT A:RGB RED<br>LO7 | 3x05013<br>4x05013<br>I:5012 | 0.000000,0x00000000<br>B:00 00 00 00 | | 10,0 | FLOAT32R<br>R/W | YES |
| | | LED3:Current RGB RED setpoint for PWM output A: 0,00000% -> 0 | | | | |
| LED3:OUTPUT B:RGB GREEN<br>LO8 | 3x05015<br>4x05015<br>I:5014 | 0.000000,0x00000000<br>B:00 00 00 00 | | 10,0 | FLOAT32R<br>R/W | YES |
| | | LED3:Current RGB GREEN setpoint for PWM output B: 0,00000% -> 0 | | | | |
| LED3:OUTPUT C:RGB BLUE<br>LO9 | 3x05017<br>4x05017<br>I:5016 | 0.000000,0x00000000<br>B:00 00 00 00 | | 10,0 | FLOAT32R<br>R/W | YES |
| | | LED3:Current RGB BLUE setpoint for PWM output C: 0,00000% -> 0 | | | | |
| LED4:OUTPUT A:RGB RED<br>LO10 | 3x05019<br>4x05019<br>I:5018 | 0.000000,0x00000000<br>B:00 00 00 00 | | 10,0 | FLOAT32R<br>R/W | YES |
| | | LED4:Current RGB RED setpoint for PWM output A: 0,00000% -> 0 | | | | |
| LED4:OUTPUT B:RGB GREEN<br>LO11 | 3x05021<br>4x05021<br>I:5020 | 0.000000,0x00000000<br>B:00 00 00 00 | | 10,0 | FLOAT32R<br>R/W | YES |
| | | LED4:Current RGB GREEN setpoint for PWM output B: 0,00000% -> 0 | | | | |
| LED4:OUTPUT C:RGB BLUE<br>LO12 | 3x05023<br>4x05023<br>I:5022 | 0.000000,0x00000000<br>B:00 00 00 00 | | 10,0 | FLOAT32R<br>R/W | YES |
| | | LED4:Current RGB BLUE setpoint for PWM output C: 0,00000% -> 0 | | | | |
| LED OUTPUTS: HSV SETPOINTS | | | | | | |
| LED1:OUTPUT A:HSV HUE<br>LO1-LO3 | 3x05025<br>4x05025<br>I:5024 | 120.567001,0x42F1224E<br>B:22 4E 42 F1 | | 360,0 | FLOAT32R<br>R/W | YES |
| | | LED1:Current HSV HUE setpoint for PWM outputs A-C: 120,567001° | | | | |
| Current HSV HUE set point of LED group LEDx PWM outputs 1-3.<br>0 to 360° for hue in degrees<br><br>If you write onto this register, you define a new HSV HUE set point value for the PWM outputs 1-3 | | | | | | |
| LED1:OUTPUT B:HSV SATURATION<br>LO1-LO3 | 3x05027<br>4x05027<br>I:5026 | 100.000000,0x42C80000<br>B:00 00 42 C8 | | 100,0 | FLOAT32R<br>R/W | YES |
| | | LED1:Current HSV SATURATION setpoint for PWM outputs A-C: 100,000000% | | | | |
| Current HSV SATURATION set point of LED group LEDx PWM outputs 1-3.<br>0% 100% for saturation in percent<br><br>If you write onto this register, you define a new HSV SATURATION set point value for the PWM outputs 1-3 | | | | | | |
| LED1:OUTPUT C:HSV VALUE<br>LO1-LO3 | 3x05029<br>4x05029<br>I:5028 | 100.000000,0x42C80000<br>B:00 00 42 C8 | | 100,0 | FLOAT32R<br>R/W | YES |
| | | LED1:Current HSV VALUE setpoint for PWM outputs A-C: 100,000000% | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| Current HSV VALUE set point of LED group LEDx PWM outputs 1-3.<br>0% to 100% for value in percent<br><br>If you write onto this register, you define a new HSV VALUE set point value for the PWM outputs 1-3 | | | | | | |
| LED2:OUTPUT A:HSV HUE<br>LO4-LO6 | 3x05031<br>4x05031<br>I:5030 | 0.000000,0x00000000<br>B:00 00 00 00 | | 360,0 | FLOAT32R<br>R/W | YES |
| | | LED2:Current HSV HUE setpoint for PWM outputs A-C: 0,000000° | | | | |
| LED2:OUTPUT B:HSV SATURATION<br>LO4-LO6 | 3x05033<br>4x05033<br>I:5032 | 0.000000,0x00000000<br>B:00 00 00 00 | | 100,0 | FLOAT32R<br>R/W | YES |
| | | LED2:Current HSV SATURATION setpoint for PWM output B: 0,000000% | | | | |
| LED2:OUTPUT C:HSV VALUE<br>LO4-LO6 | 3x05035<br>4x05035<br>I:5034 | 0.000000,0x00000000<br>B:00 00 00 00 | | 100,0 | FLOAT32R<br>R/W | YES |
| | | LED2:Current HSV VALUE setpoint for PWM output C: 0,000000% | | | | |
| LED3:OUTPUT A:HSV HUE<br>LO7-LO9 | 3x05037<br>4x05037<br>I:5036 | 0.000000,0x00000000<br>B:00 00 00 00 | | 360,0 | FLOAT32R<br>R/W | YES |
| | | LED3:Current HSV HUE setpoint for PWM output A: 0,000000° | | | | |
| LED3:OUTPUT B:HSV SATURATION<br>LO7-LO9 | 3x05039<br>4x05039<br>I:5038 | 0.000000,0x00000000<br>B:00 00 00 00 | | 100,0 | FLOAT32R<br>R/W | YES |
| | | LED3:Current HSV SATURATION setpoint for PWM output B: 0,000000% | | | | |
| LED3:OUTPUT C:HSV VALUE<br>LO7-LO9 | 3x05041<br>4x05041<br>I:5040 | 0.000000,0x00000000<br>B:00 00 00 00 | | 100,0 | FLOAT32R<br>R/W | YES |
| | | LED3:Current HSV VALUE setpoint for PWM output C: 0,000000% | | | | |
| LED4:OUTPUT A:HSV HUE<br>LO10-LO12 | 3x05043<br>4x05043<br>I:5042 | 0.000000,0x00000000<br>B:00 00 00 00 | | 360,0 | FLOAT32R<br>R/W | YES |
| | | LED4:Current HSV HUE setpoint for PWM output A: 0,000000° | | | | |
| LED4:OUTPUT B:HSV SATURATION<br>LO10-LO12 | 3x05045<br>4x05045<br>I:5044 | 0.000000,0x00000000<br>B:00 00 00 00 | | 100,0 | FLOAT32R<br>R/W | YES |
| | | LED4:Current HSV SATURATION setpoint for PWM output B: 0,000000% | | | | |
| LED4:OUTPUT C:HSV VALUE<br>LO10-LO12 | 3x05047<br>4x05047<br>I:5046 | 0.000000,0x00000000<br>B:00 00 00 00 | | 100,0 | FLOAT32R<br>R/W | YES |
| | | LED4:Current HSV VALUE setpoint for PWM output C: 0,000000% | | | | |

| Register NAME<br>Command NAME | MODBUS<br>Register<br>ASCII<br>Command | Register VALUE<br>ASCII Command | NEW REAL<br>VALUE | NEW<br>VALUE | DATA TYPE | DO<br>WRITE |
|---|---|---|---|---|---|---|
| | | | | | | |
| LED GROUPS:HSV EFFECTS LED GROUP 1 | | | | | | |
| LED GROUP LED1:<br>HSV EFFECT MODE | 3x10001<br>4x10001<br>I:10000 | 0,0x0000<br>B:00 00 | | 0:UP | UINT16<br>R/W | YES |
| | | LED1:Current HSV effect mode: 0:UP | | | | |
| The current HSV effect mode, only active if the MODE of the LED group is set to 6:HSV EFFECTS!<br>=0:UP:increment of HUE/SATURATON or VALUE<br>=1:DOWN:decrement of HUE/SATURATON or VALUE<br>=2: UP/DOWN:alternate increment and decrement of HUE/SATURATON or VALUE | | | | | | |
| LED GROUP LED1:<br>HSV EFFECT HUE START | 3x10002<br>4x10002<br>I:10001 | 0,0x0000<br>B:00 00 | 12000 | 120,00 | UINT16<br>R/W | YES |
| | | LED1:Current HSV HUE start angle for PWM outputs A-C: 0,00° | | | | |
| Current HUE start angle set point of LED group LEDx PWM outputs 1-3.<br>0...36000 for 0° to 360.00° for hue in degrees*100 | | | | | | |
| LED GROUP LED1:<br>HSV EFFECT HUE END | 3x10003<br>4x10003<br>I:10002 | 36000,0x8CA0<br>B:8C A0 | 24000 | 240,00 | UINT16<br>R/W | YES |
| | | LED1:Current HSV HUE end angle for PWM outputs A-C: 360,00° | | | | |
| Current HUE end angle set point of LED group LEDx PWM outputs 1-3.<br>0...36000 for 0° to 360.00° for hue in degrees*100 | | | | | | |
| LED GROUP LED1:<br>HSV EFFECT HUE INC-DEC | 3x10004<br>4x10004<br>I:10003 | 100,0x0064<br>B:00 64 | 1 | 0,001 | UINT16<br>R/W | YES |
| | | LED1:Current HSV HUE inc/dec angle for PWM outputs A-C: 0,100° | | | | |
| Current HUE increment-decrement angle set point of LED group LEDx PWM outputs 1-3.<br>0...65535 for 0° to 65,535° for hue in degrees*1000. This angle is added/subtracted every 5ms from the current HSV HUE angle depending on HSV EFFECT MODE setting | | | | | | |
| LED GROUP LED1:<br>HSV EFFECT SATURATION START | 3x10005<br>4x10005<br>I:10004 | 10000,0x2710<br>B:27 10 | 10000 | 100,00 | UINT16<br>R/W | YES |
| | | LED1:Current HSV SATURATION start percentage for PWM outputs A-C: 100,00% | | | | |
| Current SATURATION start percentage set point of LED group LEDx PWM outputs 1-3.<br>0...10000 for 0% to 100.00% for saturation in percent*100 | | | | | | |
| LED GROUP LED1:<br>HSV EFFECT SATURATION END | 3x10006<br>4x10006<br>I:10005 | 10000,0x2710<br>B:27 10 | 10000 | 100,00 | UINT16<br>R/W | YES |
| | | LED1:Current HSV SATURATION end percentage for PWM outputs A-C: 100,00% | | | | |
| Current SATURATION end percentage set point of LED group LEDx PWM outputs 1-3.<br>0...10000 for 0% to 100.00% for saturation in percent*100 | | | | | | |

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|---|---|---|---|---|---|---|
| LED GROUP LED1:<br>HSV EFFECT SATURATION INC-DEC | 3x10007<br>4x10007<br>I:10006 | 0,0x0000<br>B:00 00 | 1 | 0,001 | UINT16<br>R/W | YES |
| | | LED1:Current HSV SATURATION inc/dec percentage for PWM outputs A-C: 0,000% | | | | |
| Current saturation increment-decrement percentage set point of LED group LEDx PWM outputs 1-3.<br>0...65535 for 0% to 65,535% for saturation in percent*1000. This percent value is added/subtracted every 5ms from the current HSV SATURATION percentage depending on HSV EFFECT MODE setting | | | | | | |
| LED GROUP LED1:<br>HSV EFFECT VALUE START | 3x10008<br>4x10008<br>I:10007 | 10000,0x2710<br>B:27 10 | 10000 | 100,00 | UINT16<br>R/W | YES |
| | | LED1:Current HSV VALUE start percentage for PWM outputs A-C: 100,00% | | | | |
| Current VALUE start percentage set point of LED group LEDx PWM outputs 1-3.<br>0...10000 for 0% to 100.00% for value in percent*100 | | | | | | |
| LED GROUP LED1:<br>HSV EFFECT VALUE END | 3x10009<br>4x10009<br>I:10008 | 10000,0x2710<br>B:27 10 | 10000 | 100,00 | UINT16<br>R/W | YES |
| | | LED1:Current HSV VALUE end percentage for PWM outputs A-C: 100,00% | | | | |
| Current VALUE end percentage set point of LED group LEDx PWM outputs 1-3.<br>0...10000 for 0% to 100.00% for value in percent*100 | | | | | | |
| LED GROUP LED1:<br>HSV EFFECT VALUE INC-DEC | 3x10010<br>4x10010<br>I:10009 | 0,0x0000<br>B:00 00 | 1 | 0,001 | UINT16<br>R/W | YES |
| | | LED1:Current HSV VALUE inc/dec percentage for PWM outputs A-C: 0,000% | | | | |
| Current value increment-decrement percentage set point of LED group LEDx PWM outputs 1-3.<br>0...65535 for 0% to 65,535% for value in percent*1000. This percent value is added/subtracted every 5ms from the current HSV VALUEpercentage depending on HSV EFFECT MODE setting | | | | | | |
| LED GROUPS:HSV EFFECTS LED GROUP 2 | | | | | | |
| LED GROUP LED2:<br>HSV EFFECT MODE | 3x10011<br>4x10011<br>I:10010 | 0,0x0000<br>B:00 00 | | 0:UP | UINT16<br>R/W | YES |
| | | LED2:Current HSV effect mode: 0:UP | | | | |
| LED GROUP LED2:<br>HSV EFFECT HUE START | 3x10012<br>4x10012<br>I:10011 | 0,0x0000<br>B:00 00 | 12000 | 120,00 | UINT16<br>R/W | YES |
| | | LED2:Current HSV HUE start angle for PWM outputs A-C: 0,00° | | | | |
| LED GROUP LED2:<br>HSV EFFECT HUE END | 3x10013<br>4x10013<br>I:10012 | 36000,0x8CA0<br>B:8C A0 | 24000 | 240,00 | UINT16<br>R/W | YES |
| | | LED2:Current HSV HUE end angle for PWM outputs A-C: 360,00° | | | | |
| LED GROUP LED2:<br>HSV EFFECT HUE INC-DEC | 3x10014<br>4x10014<br>I:10013 | 100,0x0064<br>B:00 64 | 1 | 0,001 | UINT16<br>R/W | YES |
| | | LED2:Current HSV HUE inc/dec angle for PWM outputs A-C: 0,100° | | | | |
| LED GROUP LED2:<br>HSV EFFECT SATURATION START | 3x10015<br>4x10015<br>I:10014 | 10000,0x2710<br>B:27 10 | 10000 | 100,00 | UINT16<br>R/W | YES |
| | | LED2:Current HSV SATURATION start percentage for PWM outputs A-C: 100,00% | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| LED GROUP LED2:<br>HSV EFFECT SATURATION END | 3x10016<br>4x10016<br>I:10015 | 10000,0x2710<br>B:27 10 | 10000 | 100,00 | UINT16<br>R/W | YES |
| | | LED2:Current HSV SATURATION end percentage for PWM outputs A-C: 100,00% | | | | |
| LED GROUP LED2:<br>HSV EFFECT SATURATION INC-DEC | 3x10017<br>4x10017<br>I:10016 | 0,0x0000<br>B:00 00 | 1 | 0,001 | UINT16<br>R/W | YES |
| | | LED2:Current HSV SATURATION inc/dec percentage for PWM outputs A-C: 0,000% | | | | |
| LED GROUP LED2:<br>HSV EFFECT VALUE START | 3x10018<br>4x10018<br>I:10017 | 10000,0x2710<br>B:27 10 | 10000 | 100,00 | UINT16<br>R/W | YES |
| | | LED2:Current HSV VALUE start percentage for PWM outputs A-C: 100,00% | | | | |
| LED GROUP LED2:<br>HSV EFFECT VALUE END | 3x10019<br>4x10019<br>I:10018 | 10000,0x2710<br>B:27 10 | 10000 | 100,00 | UINT16<br>R/W | YES |
| | | LED2:Current HSV VALUE end percentage for PWM outputs A-C: 100,00% | | | | |
| LED GROUP LED2:<br>HSV EFFECT VALUE INC-DEC | 3x10020<br>4x10020<br>I:10019 | 0,0x0000<br>B:00 00 | 1 | 0,001 | UINT16<br>R/W | YES |
| | | LED2:Current HSV VALUE inc/dec percentage for PWM outputs A-C: 0,000% | | | | |
| LED GROUPS:HSV EFFECTS LED GROUP 3 | | | | | | |
| LED GROUP LED3:<br>HSV EFFECT MODE | 3x10021<br>4x10021<br>I:10020 | 0,0x0000<br>B:00 00 | | 0:UP | UINT16<br>R/W | YES |
| | | LED3:Current HSV effect mode: 0:UP | | | | |
| LED GROUP LED3:<br>HSV EFFECT HUE START | 3x10022<br>4x10022<br>I:10021 | 0,0x0000<br>B:00 00 | 12000 | 120,00 | UINT16<br>R/W | YES |
| | | LED3:Current HSV HUE start angle for PWM outputs A-C: 0,00° | | | | |
| LED GROUP LED3:<br>HSV EFFECT HUE END | 3x10023<br>4x10023<br>I:10022 | 36000,0x8CA0<br>B:8C A0 | 24000 | 240,00 | UINT16<br>R/W | YES |
| | | LED3:Current HSV HUE end angle for PWM outputs A-C: 360,00° | | | | |
| LED GROUP LED3:<br>HSV EFFECT HUE INC-DEC | 3x10024<br>4x10024<br>I:10023 | 100,0x0064<br>B:00 64 | 1 | 0,001 | UINT16<br>R/W | YES |
| | | LED3:Current HSV HUE inc/dec angle for PWM outputs A-C: 0,100° | | | | |
| LED GROUP LED3:<br>HSV EFFECT SATURATION START | 3x10025<br>4x10025<br>I:10024 | 10000,0x2710<br>B:27 10 | 10000 | 100,00 | UINT16<br>R/W | YES |
| | | LED3:Current HSV SATURATION start percentage for PWM outputs A-C: 100,00% | | | | |
| LED GROUP LED3:<br>HSV EFFECT SATURATION END | 3x10026<br>4x10026<br>I:10025 | 10000,0x2710<br>B:27 10 | 10000 | 100,00 | UINT16<br>R/W | YES |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | LED3:Current HSV SATURATION end percentage for PWM outputs A-C: 100,00% | | | | |
| LED GROUP LED3:<br>HSV EFFECT SATURATION INC-DEC | 3x10027<br>4x10027<br>I:10026 | 0,0x0000<br>B:00 00 | 1 | 0,001 | UINT16<br>R/W | YES |
| | | LED3:Current HSV SATURATION inc/dec percentage for PWM outputs A-C: 0,000% | | | | |
| LED GROUP LED3:<br>HSV EFFECT VALUE START | 3x10028<br>4x10028<br>I:10027 | 10000,0x2710<br>B:27 10 | 10000 | 100,00 | UINT16<br>R/W | YES |
| | | LED3:Current HSV VALUE start percentage for PWM outputs A-C: 100,00% | | | | |
| LED GROUP LED3:<br>HSV EFFECT VALUE END | 3x10029<br>4x10029<br>I:10028 | 10000,0x2710<br>B:27 10 | 10000 | 100,00 | UINT16<br>R/W | YES |
| | | LED3:Current HSV VALUE end percentage for PWM outputs A-C: 100,00% | | | | |
| LED GROUP LED3:<br>HSV EFFECT VALUE INC-DEC | 3x10030<br>4x10030<br>I:10029 | 0,0x0000<br>B:00 00 | 1 | 0,001 | UINT16<br>R/W | YES |
| | | LED3:Current HSV VALUE inc/dec percentage for PWM outputs A-C: 0,000% | | | | |
| LED GROUPS:HSV EFFECTS LED GROUP 4 | | | | | | |
| LED GROUP LED4:<br>HSV EFFECT MODE | 3x10031<br>4x10031<br>I:10030 | 0,0x0000<br>B:00 00 | | 0:UP | UINT16<br>R/W | YES |
| | | LED4:Current HSV effect mode: 0:UP | | | | |
| LED GROUP LED4:<br>HSV EFFECT HUE START | 3x10032<br>4x10032<br>I:10031 | 0,0x0000<br>B:00 00 | 12000 | 120,00 | UINT16<br>R/W | YES |
| | | LED4:Current HSV HUE start angle for PWM outputs A-C: 0,00° | | | | |
| LED GROUP LED4:<br>HSV EFFECT HUE END | 3x10033<br>4x10033<br>I:10032 | 36000,0x8CA0<br>B:8C A0 | 24000 | 240,00 | UINT16<br>R/W | YES |
| | | LED4:Current HSV HUE end angle for PWM outputs A-C: 360,00° | | | | |
| LED GROUP LED4:<br>HSV EFFECT HUE INC-DEC | 3x10034<br>4x10034<br>I:10033 | 100,0x0064<br>B:00 64 | 1 | 0,001 | UINT16<br>R/W | YES |
| | | LED4:Current HSV HUE inc/dec angle for PWM outputs A-C: 0,100° | | | | |
| LED GROUP LED4:<br>HSV EFFECT SATURATION START | 3x10035<br>4x10035<br>I:10034 | 10000,0x2710<br>B:27 10 | 10000 | 100,00 | UINT16<br>R/W | YES |
| | | LED4:Current HSV SATURATION start percentage for PWM outputs A-C: 100,00% | | | | |
| LED GROUP LED4:<br>HSV EFFECT SATURATION END | 3x10036<br>4x10036<br>I:10035 | 10000,0x2710<br>B:27 10 | 10000 | 100,00 | UINT16<br>R/W | YES |
| | | LED4:Current HSV SATURATION end percentage for PWM outputs A-C: 100,00% | | | | |

 

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|---|---|---|---|---|---|---|
| LED GROUP LED4:<br>HSV EFFECT SATURATION INC-DEC | 3x10037<br>4x10037<br>I:10036 | 0,0x0000<br>B:00 00 | 1 | 0,001 | UINT16<br>R/W | YES |
| | | LED4:Current HSV SATURATION inc/dec percentage for PWM outputs A-C: 0,000% | | | | |
| LED GROUP LED4:<br>HSV EFFECT VALUE START | 3x10038<br>4x10038<br>I:10037 | 10000,0x2710<br>B:27 10 | 10000 | 100,00 | UINT16<br>R/W | YES |
| | | LED4:Current HSV VALUE start percentage for PWM outputs A-C: 100,00% | | | | |
| LED GROUP LED4:<br>HSV EFFECT VALUE END | 3x10039<br>4x10039<br>I:10038 | 10000,0x2710<br>B:27 10 | 10000 | 100,00 | UINT16<br>R/W | YES |
| | | LED4:Current HSV VALUE end percentage for PWM outputs A-C: 100,00% | | | | |
| LED GROUP LED4:<br>HSV EFFECT VALUE INC-DEC | 3x10040<br>4x10040<br>I:10039 | 0,0x0000<br>B:00 00 | 1 | 0,001 | UINT16<br>R/W | YES |
| | | LED4:Current HSV VALUE inc/dec percentage for PWM outputs A-C: 0,000% | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| LED1:OUTPUT C:HSV VALUE<br>LO3 | 3x10005<br>4x10005<br>I:10004 | 10000,0x2710<br>B:27 10 | 10000 | 100,0 | UINT16<br>R/W | YES |
| | | LED1:Current HSV VALUE setpoint for PWM output C: 100,00% | | | | |
| Current HSV VALUE set point of LED group LEDx PWM outputs 1-3.<br>0...10000 for 0% to 100.00% for value in percent*100<br><br>If you write onto this register, you define a new HSV VALUE set point value for the PWM outputs 1-3 | | | | | | |
| LED GROUPS:HSV EFFECTS LED GROUP 1 | | | | | | |
| LED GROUP LED1:<br>HSV EFFECT STATE | 3x11001<br>4x11001<br>I:11000 | 0,0x0000<br>B:00 00 | | | UINT16<br>R/O | |
| | | LED1:Current HSV effect state: 0 | | | | |
| The current HSV effect state | | | | | | |
| LED GROUP LED1:<br>HSV EFFECT HUE CURRENT | 3x11002<br>4x11002<br>I:11001 | 0,0x0000<br>B:00 00 | | | UINT16<br>R/O | |
| | | LED1:Current HSV HUE angle for PWM outputs A-C: 0,00° | | | | |
| Current HUE angle of LED group LEDx PWM outputs 1-3.<br>0...36000 for 0° to 360.00° for hue in degrees*100 | | | | | | |
| LED GROUP LED1:<br>HSV EFFECT SATURATION CURRENT | 3x11003<br>4x11003<br>I:11002 | 10000,0x2710<br>B:27 10 | | | UINT16<br>R/O | |
| | | LED1:Current HSV SATURATION percentage for PWM outputs A-C: 100,00% | | | | |
| Current SATURATION percentage of LED group LEDx PWM outputs 1-3.<br>0...10000 for 0% to 100.00% for saturation in percent*100 | | | | | | |

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|---|---|---|---|---|---|---|
| LED GROUP LED1:<br>HSV EFFECT VALUE CURRENT | 3x11004<br>4x11004<br>I:11003 | 10000,0x2710<br>B:27 10 | | | UINT16<br>R/O | |
| | | LED1:Current HSV VALUE percentage for PWM outputs A-C: 100,00% | | | | |
| Current VALUE percentage of LED group LEDx PWM outputs 1-3.<br>0...10000 for 0% to 100.00% for value in percent*100 | | | | | | |
| LED GROUPS:HSV EFFECTS LED GROUP 2 | | | | | | |
| LED GROUP LED2:<br>HSV EFFECT STATE | 3x11005<br>4x11005<br>I:11004 | 0,0x0000<br>B:00 00 | | | UINT16<br>R/O | |
| | | LED2:Current HSV effect state: 0 | | | | |
| LED GROUP LED2:<br>HSV EFFECT HUE CURRENT | 3x11006<br>4x11006<br>I:11005 | 0,0x0000<br>B:00 00 | | | UINT16<br>R/O | |
| | | LED2:Current HSV HUE angle for PWM outputs A-C: 0,00° | | | | |
| LED GROUP LED2:<br>HSV EFFECT SATURATION CURRENT | 3x11007<br>4x11007<br>I:11006 | 10000,0x2710<br>B:27 10 | | | UINT16<br>R/O | |
| | | LED2:Current HSV SATURATION percentage for PWM outputs A-C: 100,00% | | | | |
| LED GROUP LED2:<br>HSV EFFECT VALUE CURRENT | 3x11008<br>4x11008<br>I:11007 | 10000,0x2710<br>B:27 10 | | | UINT16<br>R/O | |
| | | LED2:Current HSV VALUE percentage for PWM outputs A-C: 100,00% | | | | |
| LED GROUPS:HSV EFFECTS LED GROUP 3 | | | | | | |
| LED GROUP LED3:<br>HSV EFFECT STATE | 3x11009<br>4x11009<br>I:11008 | 0,0x0000<br>B:00 00 | | | UINT16<br>R/O | |
| | | LED3:Current HSV effect state: 0 | | | | |
| LED GROUP LED3:<br>HSV EFFECT HUE CURRENT | 3x11010<br>4x11010<br>I:11009 | 0,0x0000<br>B:00 00 | | | UINT16<br>R/O | |
| | | LED3:Current HSV HUE angle for PWM outputs A-C: 0,00° | | | | |
| LED GROUP LED3:<br>HSV EFFECT SATURATION CURRENT | 3x11011<br>4x11011<br>I:11010 | 10000,0x2710<br>B:27 10 | | | UINT16<br>R/O | |
| | | LED3:Current HSV SATURATION percentage for PWM outputs A-C: 100,00% | | | | |
| LED GROUP LED3:<br>HSV EFFECT VALUE CURRENT | 3x11012<br>4x11012<br>I:11011 | 10000,0x2710<br>B:27 10 | | | UINT16<br>R/O | |
| | | LED3:Current HSV VALUE percentage for PWM outputs A-C: 100,00% | | | | |
| LED GROUPS:HSV EFFECTS LED GROUP 4 | | | | | | |
| LED GROUP LED4:<br>HSV EFFECT STATE | 3x11013<br>4x11013<br>I:11012 | 0,0x0000<br>B:00 00 | | | UINT16<br>R/O | |
| | | LED4:Current HSV effect state: 0 | | | | |

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|---|---|---|---|---|---|---|
| LED GROUP LED4:<br>HSV EFFECT HUE CURRENT | 3x11014<br>4x11014<br>I:11013 | 0,0x0000<br>B:00 00 | | | UINT16<br>R/O | |
| | | LED4:Current HSV HUE angle for PWM outputs A-C: 0,00° | | | | |
| LED GROUP LED4:<br>HSV EFFECT SATURATION CURRENT | 3x11015<br>4x11015<br>I:11014 | 10000,0x2710<br>B:27 10 | | | UINT16<br>R/O | |
| | | LED4:Current HSV SATURATION percentage for PWM outputs A-C: 100,00% | | | | |
| LED GROUP LED4:<br>HSV EFFECT VALUE CURRENT | 3x11016<br>4x11016<br>I:11015 | 10000,0x2710<br>B:27 10 | | | UINT16<br>R/O | |
| | | LED4:Current HSV VALUE percentage for PWM outputs A-C: 100,00% | | | | |

 

| Command NAME | ASCII command type | ASCII command structure | NEW REAL VALUE | NEW VALUE | DATA TYPE | DO WRITE |
|---|---|---|---|---|---|---|
| | | | | | | |
| ASCII COMMANDS | | | | | | |
| LED PWM OUTPUTS | | | | | | |
| SET LED OUTPUTS | ASCII WRITE COMMAND | #SLOS:<PWMLO1>,<PWMLO2>,<PWMLO3>,<PWMLO4>,<br><PWMLO5>,<PWMLO6>,<PWMLO7>,<PWMLO8>,<br><PWMLO9>,<PWMLO10>,<PWMLO11>,<PWMLO12><CR><br>Result:<br>#OK<CR> | | | ASCII | NO |
| | PWMLO1 | 100 | | | | |
| | PWMLO2 | 100 | | | | |
| | PWMLO3 | 100 | | | | |
| | PWMLO4 | 100 | | | | |
| | PWMLO5 | 100 | | | | |
| | PWMLO6 | 100 | | | | |
| | PWMLO7 | 100 | | | | |
| | PWMLO8 | 100 | | | | |
| | PWMLO9 | 100 | | | | |
| | PWMLO10 | 100 | | | | |
| | PWMLO11 | 100 | | | | |
| | PWMLO12 | 100 | | | | |
| | TX | #1,SLOS:100,100,100,100,100,100,100,100,100,100,100,100<CR> | | | | |
| | RX | N/A | | | | |
| Stores for all PWM outputs a new value PWMLOx into the set point register<br>PWMLOx: the new set point value for the register LOx in the range of 0..4095 or 0x000 to 0xFFF | | | | | | |
| SET OUTPUT LOx | ASCII WRITE COMMAND | #SLO<LONR>:<PWMVALUE><CR><br>Result:<br>#OK<CR> | | | ASCII | NO |
| | LONR | 1 | | | | |
| | PWMVALUE | 100 | | | | |
| | TX | #1,SLO1:100<CR> | | | | |
| | RX | N/A | | | | |
| Stores the new value PWMValue into the set point register LOx.<br>PWMValue: the new set point value for the register LOx in the range of 0..4095 or 0x000 to 0xFFF | | | | | | |
| GET LED OUTPUTS | ASCII READ COMMAND | #GLOS<CR><br>Result:<br>#GLOS:<LO1Dec>,<LO2Dec>,..,<LO12Dec>,<br><LO1Hex>,<LO2Hex>,..,<LO12Hex><CR> | | | ASCII | |
| | TX | #1,GLOS<CR> | | | | |
| | RX | #1,GLOS:0,0,0,0,0,0,0,0,0,0,0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0<CR> | | | | |
| | | Current value of PWM output 1 LED1:A:0->0,00% | | | | |
| | | Current value of PWM output 2 LED1:B:0->0,00% | | | | |
| | | Current value of PWM output 3 LED1:C:0->0,00% | | | | |

| | | | | |
|---|---|---|---|---|
| | | Current value of PWM output 4 LED2:A:0->0,00% | | |
| | | Current value of PWM output 5 LED2:B:0->0,00% | | |
| | | Current value of PWM output 6 LED2:C:0->0,00% | | |
| | | Current value of PWM output 7 LED3:A:0->0,00% | | |
| | | Current value of PWM output 8 LED3:B:0->0,00% | | |
| | | Current value of PWM output 9 LED3:C:0->0,00% | | |
| | | Current value of PWM output 10 LED4:A:0->0,00% | | |
| | | Current value of PWM output 11 LED4:B:0->0,00% | | |
| | | Current value of PWM output 12 LED4:C:0->0,00% | | |
| Returns the current value of all set point values of the PWM outputs LO1-LO12 as decimal and hexadecimal number<br>LOxDec,LOxHex: The current set point of the dimmable output x in the range of 0 to 4095 or 0x000 to 0xFFF | | | | |
| GET LED OUTPUT LOx | ASCII<br>READ<br>COMMAND | #GLO<LONR><CR><br>Result:<br>#GLO<LONR>:<LOxDec>,<LOxHex><CR> | ASCII | |
| | LONR | 1 | | |
| | TX | #1,GLO1<CR> | | |
| | RX | #1,GLO1:0,0x0<CR> | | |
| | | Current value of PWM output 1:0->0,00% | | |
| Returns the current set point value of the PWM output LOx as decimal and hexadecimal number<br>LOxDec,LOxHex: The current set point of the dimmable output LOx in the range of 0 to 4095 or 0x000 to 0xFFF | | | | |
| SET MODES | ASCII<br>WRITE<br>COMMAND | #SMODES:<MODE1>,<MODE2>,<MODE3>,<MODE4><CR><br>Result:<br>#OK<CR> | ASCII | NO |
| | MODE1 | 2:FLASH | | |
| | MODE2 | 5:SEQUENCE | | |
| | MODE3 | 6:HSV EFFECTS | | |
| | MODE4 | 1:ON | | |
| | TX | #1,SMODES:2,5,6,1<CR> | | |
| | RX | N/A | | |
| Sets the mode for the three LED outputs for one of the four LED groups LED1-LED4 to the new mode MODE1-MODE4.<br>MODE1-4: The new mode for the LED module<br>=0: OFF: All three outputs of the affected LED group are immediately switched to 0<br>=1: ON: All three outputs of the affected LED group are dimmed to the values LOx immediately<br>=2: FLASH: All three outputs of the affected LED group flashes in the rhythm of the parameterized minimum and maximum times with the three set point values LOx.<br>=3: FADE: All three outputs of the affected LED group fade with the current speed FADE SPEEDx to the new values LOx.<br>=4: RANDOM: All three outputs of the affected LED group dices a random number for each channel in the range of 0 to LOx.<br>Then the three outputs fade to the new values with the current FADE SPEEDx. After a random pause between the configured minimum and maximum time in seconds, this procedure will be repeated.<br>=5: SEQUENCE: All three outputs of the affected LED group flashes successively with the three set points LOx. The three outputs are on for the time period MIN TIMEx in 1/10s.<br>In between the three outputs are 0 for a time period MAXTIMEx in 1/10s.<br>=6: HSV EFFECTS: The three LED outputs aure used as RGB LEDs and will display the current configured HSV effect | | | | |
| SET MODEx | ASCII<br>WRITE<br>COMMAND | #SMODE<LEDGROUP>:<MODE><CR><br>Result:<br>#OK<CR> | ASCII | NO |
| | LEDGROUP | 1 | | |
| | MODE | 1:ON | | |
| | TX | #1,SMODE1:1<CR> | | |
| | RX | N/A | | |

Sets the mode for the three LED outputs for one of the four LED groups LEDGROUP to the new mode MODE.
MODE: The new mode for the LED module
=0: OFF: All three outputs of the affected LED group are immediately switched to 0
=1: ON: All three outputs of the affected LED group are dimmed to the values LOx immediately
=2: FLASH: All three outputs of the affected LED group flashes in the rhythm of the parameterized minimum and maximum times with the three set point values LOx.
=3: FADE: All three outputs of the affected LED group fade with the current speed FADE SPEEDx to the new values LOx.
=4: RANDOM: All three outputs of the affected LED group dices a random number for each channel in the range of 0 to LOx.
Then the three outputs fade to the new values with the current FADE SPEEDx. After a random pause between the configured minimum and maximum time in seconds, this procedure will be repeated.
=5: SEQUENCE: All three outputs of the affected LED group flashes successively with the three set points LOx. The three outputs are on for the time period MIN TIMEx in 1/10s.
In between the three outputs are 0 for a time period MAXTIMEx in 1/10s.
=6: HSV EFFECTS: The three LED outputs aure used as RGB LEDs and will display the current configured HSV effect

| | | | | |
|---|---|---|---|---|
| GET MODES | ASCII<br>READ<br>COMMAND | #GMODES<CR><br>Result:<br>#GMODES:<MODE1Dec>,<MODE2Dec>,<MODE3Dec>,<MODE4Dec>,<br><MODE1Hex>,<MODE2Hex>,<MODE3Hex>,<MODE4Hex><CR> | ASCII | |
| | TX | #1,GMODES<CR> | | |
| | RX | #1,GMODES:6,1,1,1,0x6,0x1,0x1,0x1<CR> | | |
| | | Current mode for group 1:6:HSVEFFECTS | | |
| | | Current mode for group 2:1:ON | | |
| | | Current mode for group 3:1:ON | | |
| | | Current mode for group 4:1:ON | | |

Returns the current mode of the affected LED group LED1..LED4.
MODExDec,MODExHex: The current mode of the affected LED group.
=0: OFF: All three outputs of the affected LED group are immediately switched to 0
=1: ON: All three outputs of the affected LED group are dimmed to the values LOx immediately
=2: FLASH: All three outputs of the affected LED group flashes in the rhythm of the parameterized minimum and maximum times with the three set point values LOx.
=3: FADE: All three outputs of the affected LED group fade with the current speed FADE SPEEDx to the new values LOx.
=4: RANDOM: All three outputs of the affected LED group dices a random number for each channel in the range of 0 to LOx.
Then the three outputs fade to the new values with the current FADE SPEEDx. After a random pause between the configured minimum and maximum time in seconds, this procedure will be repeated.
=5: SEQUENCE: All three outputs of the affected LED group flashes successively with the three set points LOx. The three outputs are on for the time period MIN TIMEx in 1/10s.
In between the three outputs are 0 for a time period MAXTIMEx in 1/10s.
=6: HSV EFFECTS: The three LED outputs aure used as RGB LEDs and will display the current configured HSV effect

| | | | | |
|---|---|---|---|---|
| GET MODEx | ASCII<br>READ<br>COMMAND | #GMODE<LEDGROUP><CR><br>Result:<br>#GMODE<LEDGROUP>:<MODEDec>,<MODEHex><CR> | ASCII | |
| | LEDGROUP | 1 | | |
| | TX | #1,GMODE1<CR> | | |
| | RX | #1,GMODE1:6,0x6<CR> | | |
| | | Current mode for group: 1:6:HSVEFFECTS | | |

Returns the current mode of the affected LED group LEDGROUP.
MODEDec,MODEHex: The current mode of the affected LED group.
=0: OFF: All three outputs of the affected LED group are immediately switched to 0
=1: ON: All three outputs of the affected LED group are dimmed to the values LOx immediately
=2: FLASH: All three outputs of the affected LED group flashes in the rhythm of the parameterized minimum and maximum times with the three set point values LOx.
=3: FADE: All three outputs of the affected LED group fade with the current speed FADE SPEEDx to the new values LOx.
=4: RANDOM: All three outputs of the affected LED group dices a random number for each channel in the range of 0 to LOx.
Then the three outputs fade to the new values with the current FADE SPEEDx. After a random pause between the configured minimum and maximum time in seconds, this procedure will be repeated.
=5: SEQUENCE: All three outputs of the affected LED group flashes successively with the three set points LOx. The three outputs are on for the time period MIN TIMEx in 1/10s.
In between the three outputs are 0 for a time period MAXTIMEx in 1/10s.
=6: HSV EFFECTS: The three LED outputs aure used as RGB LEDs and will display the current configured HSV effect

| | | | | |
|---|---|---|---|---|
| SET FADES | ASCII<br>WRITE<br>COMMAND | #SFADES:<FADE1>,<FADE2>,<FADE3>,<FADE4><CR><br>Result:<br>#OK<CR> | ASCII | NO |
| | FADE1 | 3 | | |
| | FADE2 | 3 | | |
| | FADE3 | 3 | | |
| | FADE4 | 3 | | |
| | TX | #1,SFADES:3,3,3,3<CR> | | |
| | RX | N/A | | |
| Sets the new fading speed for the fading in the two modes FADE and RANDOM for the all LED groups.<br>FADEx: The new speed for fading in steps per 1/100s. | | | | |
| SET FADEx | ASCII<br>WRITE<br>COMMAND | #SFADE<LEDGROUP>:<FADE><CR><br>Result:<br>#OK<CR> | ASCII | NO |
| | LEDGROUP | 1 | | |
| | FADE | 3 | | |
| | TX | #1,SFADE1:3<CR> | | |
| | RX | N/A | | |
| Sets the new fading speed for the fading in the two modes FADE and RANDOM for the affected LED group LEDGROUP.<br>FADE: The new speed for fading in steps per 1/100s. | | | | |
| GET FADES | ASCII<br>READ<br>COMMAND | #GFADES<CR><br>Result:<br>#GFADES:<FADE1Dec>,<FADE2Dec>,<FADE3Dec>,<FADE4Dec>,<br><FADE1Hex>,<FADE2Hex>,<FADE3Hex>,<FADE4Hex><CR> | ASCII | |
| | TX | #1,GFADES<CR> | | |
| | RX | #1,GFADES:10,10,10,10,0xA,0xA,0xA,0xA<CR> | | |
| | | Current fade for group 1:10 | | |
| | | Current fade for group 2:10 | | |
| | | Current fade for group 3:10 | | |
| | | Current fade for group 4:10 | | |
| Returns the current fade speed for all LED groups in steps per 1/100s.<br>FADExDec, FADExHex: The current fade speed in steps per 1/100s. | | | | |
| GET FADEx | ASCII<br>READ<br>COMMAND | #GFADE<LEDGROUP><CR><br>Result:<br>#GFADE<LEDGROUP>:<FADEDec>,<FADEHex><CR> | ASCII | |
| | LEDGROUP | 1 | | |
| | TX | #1,GFADE1<CR> | | |
| | RX | #1,GFADE1:10,0xA<CR> | | |
| | | Current fade for group: 1:10 | | |
| Returns the current fade speed for then LED group LEDGROUP in steps per 1/100s.<br>FADEDec, FADEHex: The current fade speed in steps per 1/100s. | | | | |
| GET FADINGS | ASCII<br>READ<br>COMMAND | #GFADINGS<CR><br>Result:<br>#GFADINGS:<ISFADING1Dec>,<ISFADING2Dec>,<ISFADING3Dec>,<ISFADING4Dec>,<br><ISFADING1Hex>,<ISFADING2Hex>,<ISFADING3Hex>,<ISFADING4Hex><CR> | ASCII | |
| | TX | #1,GFADINGS<CR> | | |
| | RX | #1,GFADINGS:0,0,0,0,0x0,0x0,0x0,0x0<CR> | | |

| | | | | |
|---|---|---|---|---|
| | | Actual state of fading for group 1:NO FADING | | |
| | | Actual state of fading for group 2:NO FADING | | |
| | | Actual state of fading for group 3:NO FADING | | |
| | | Actual state of fading for group 4:NO FADING | | |
| Returns the current fade state for all LED groups.<br>ISFADINGxDec, ISFADINGxHex: The current fade state of the LED group. =0: No fading active, =1: Fading is active | | | | |
| GET FADINGx | ASCII<br>READ<br>COMMAND | #GFADING<LEDGROUP><CR><br>Result:<br>#GFADING<LEDGROUP>:<ISFADINGDec>,<ISFADINGHex><CR> | ASCII | |
| | LEDGROUP | 1 | | |
| | TX | #1,GFADING1<CR> | | |
| | RX | #1,GFADING1:0,0x0<CR> | | |
| | | Current fade for group: 1:0 | | |
| Returns the current fade state for LED group LEDGROUP.<br>ISFADINGDec, ISFADINGHex: The current fade state of the LED group. =0: No fading active, =1: Fading is active | | | | |
| SET MIN TIMES | ASCII<br>WRITE<br>COMMAND | #SMINTS:<MINTIME1>,<MINTIME2>,<MINTIME3>,<MINTIME4><CR><br>Result:<br>#OK<CR> | ASCII | NO |
| | MINTIME1 | 10 | | |
| | MINTIME2 | 10 | | |
| | MINTIME3 | 10 | | |
| | MINTIME4 | 10 | | |
| | TX | #1,SMINTS:10,10,10,10<CR> | | |
| | RX | N/A | | |
| Sets the new minimum time for all LED group. This time is used in the three modes FLASH, RANDOM and SEQUENCE.<br>MINTIMEx: The new value for the minimum time.<br>In the modes FLASH and SEQUENCE, this time defines the ON time span of the three outputs with the three values LOx.<br>The OFF time span with the three values 0 is defined with the MAXTIME parameter.<br>The parameter specifies a time in 1/10s.<br>In the mode RANDOM this time defines the minimum time span between two random value changes.<br>The parameter specifies a time span in seconds. | | | | |
| SET MIN TIMEx | ASCII<br>WRITE<br>COMMAND | #SMINT<LEDGROUP>:<MINTIME><CR><br>Result:<br>#OK<CR> | ASCII | NO |
| | LEDGROUP | 1 | | |
| | MINTIME | 10 | | |
| | TX | #1,SMINT1:10<CR> | | |
| | RX | N/A | | |
| Sets the new minimum time for the LED group LEDGROUP. This time is used in the three modes FLASH, RANDOM and SEQUENCE.<br>MINTIME: The new value for the minimum time.<br>In the modes FLASH and SEQUENCE, this time defines the ON time span of the three outputs with the three values LOx.<br>The OFF time span with the three values 0 is defined with the MAXTIME parameter.<br>The parameter specifies a time in 1/10s.<br>In the mode RANDOM this time defines the minimum time span between two random value changes.<br>The parameter specifies a time span in seconds. | | | | |

| | | | | |
|---|---|---|---|---|
| GET MIN TIMES | ASCII<br>READ<br>COMMAND | #GMINTS<CR><br>Result:<br>#GMINTS:<MINTIME1Dec>,<MINTIME2Dec>,<MINTIME3Dec>,<MINTIME4Dec>,<br><MINTIME1Hex>,<MINTIME2Hex>,<MINTIME3Hex>,<MINTIME4Hex><CR> | ASCII | |
| | TX | #1,GMINTS<CR> | | |
| | RX | #1,GMINTS:10,10,10,10,0xA,0xA,0xA,0xA<CR> | | |
| | | Current minimum time for group 1: 1,00s | | |
| | | Current minimum time for group 2: 1,00s | | |
| | | Current minimum time for group 3: 1,00s | | |
| | | Current minimum time for group 4: 1,00s | | |
| Returns the current defined minimum time of all LED groups.<br>MINTIMExDec,MINTIMExHex: The current value for the minimum time.<br>In the modes FLASH and SEQUENCE in 1/10s<br>In the mode RANDOM in seconds. | | | | |
| GET MIN TIMEx | ASCII<br>READ<br>COMMAND | #GMINT<LEDGROUP><CR><br>Result:<br>#GMINT<LEDGROUP>:<MINTIMEDec>,<MINTIMEHex><CR> | ASCII | |
| | LEDGROUP | 1 | | |
| | TX | #1,GMINT1<CR> | | |
| | RX | #1,GMINT1:10,0xA<CR> | | |
| | | Current minimum time for group 1: 1,00s | | |
| Returns the current defined minimum time of the affected LED group LEDGROUP.<br>MINTIMEDec,MINTIMEHex: The current value for the minimum time.<br>In the modes FLASH and SEQUENCE in 1/10s<br>In the mode RANDOM in seconds. | | | | |
| SET MAX TIMES | ASCII<br>WRITE<br>COMMAND | #SMAXTS:<MAXTIME1>,<MAXTIME2>,<MAXTIME3>,<MAXTIME4><CR><br>Result:<br>#OK<CR> | ASCII | NO |
| | MAXTIME1 | 10 | | |
| | MAXTIME2 | 10 | | |
| | MAXTIME3 | 10 | | |
| | MAXTIME4 | 10 | | |
| | TX | #1,SMAXTS:10,10,10,10<CR> | | |
| | RX | N/A | | |
| Sets the new maximum time for all LED groups. This time is used in the three modes FLASH, RANDOM and SEQUENCE.<br>MAXTIME: The new value for the maximum time.<br>In the modes FLASH and SEQUENCE, this time defines the OFF time span of the three outputs with the three values LOx.<br>The OFF time span with the three values LOx is defined with the MINTIME parameter.<br>The parameter specifies a time in 1/10s.<br>In the mode RANDOM this time defines the minimum time span between two random value changes.<br>The parameter specifies a time span in seconds. | | | | |
| SET MAX TIMEx | ASCII<br>WRITE<br>COMMAND | #SMAXT<LEDGROUP>:<MAXTIME><CR><br>Result:<br>#OK<CR> | ASCII | NO |
| | LEDGROUP | 1 | | |
| | MAXTIME | 10 | | |
| | TX | #1,SMAXT1:10<CR> | | |

| | | | | |
|---|---|---|---|---|
| | RX | N/A | | |
| Sets the new maximum time for the LED group LEDGROUP. This time is used in the three modes FLASH, RANDOM and SEQUENCE.<br>MAXTIME: The new value for the maximum time.<br>In the modes FLASH and SEQUENCE, this time defines the OFF time span of the three outputs with the three values LOx.<br>The OFF time span with the three values LOx is defined with the MINTIME parameter.<br>The parameter specifies a time in 1/10s.<br>In the mode RANDOM this time defines the minimum time span between two random value changes.<br>The parameter specifies a time span in seconds. | | | | |
| GET MAX TIMES | ASCII<br>READ<br>COMMAND | #GMAXTS<CR><br>Result:<br>#GMAXTS:<MAXTIME1Dec>,<MAXTIME2Dec>,<MAXTIME3Dec>,<MAXTIME4Dec>,<br><MAXTIME1Hex>,<MAXTIME2Hex>,<MAXTIME3Hex>,<MAXTIME4Hex><CR> | ASCII | |
| | TX | #1,GMAXTS<CR> | | |
| | RX | #1,GMAXTS:10,10,10,10,0xA,0xA,0xA,0xA<CR> | | |
| | | Current maximum time for group 1: 1,00s | | |
| | | Current maximum time for group 2: 1,00s | | |
| | | Current maximum time for group 3: 1,00s | | |
| | | Current maximum time for group 4: 1,00s | | |
| Returns the current defined maximum time of all LED groups.<br>MAXTIMExDec,MAXTIMExHex: The current value for the maximum time.<br>In the modes FLASH and SEQUENCE in 1/10s<br>In the mode RANDOM in seconds. | | | | |
| GET MAX TIMEx | ASCII<br>READ<br>COMMAND | #GMAXT<LEDGROUP><CR><br>Result:<br>#GMAXT<LEDGROUP>:<MAXTIMEDec>,<MAXTIMEHex><CR> | ASCII | |
| | LEDGROUP | 1 | | |
| | TX | #1,GMAXT1<CR> | | |
| | RX | #1,GMAXT1:10,0xA<CR> | | |
| | | Current maximum time for group 1: 1,00s | | |
| Returns the current defined maximum time of the affected LED group LEDGROUP.<br>MAXTIMEDec,MAXTIMEHex: The current value for the maximum time.<br>In the modes FLASH and SEQUENCE in 1/10s<br>In the mode RANDOM in seconds. | | | | |
| SET TIMES | ASCII<br>WRITE<br>COMMAND | #STIMES:<MINTIME1>,<MAXTIME1>,<MINTIME2>,<MAXTIME2>,<br><MINTIME3>,<MAXTIME3>,<MINTIME4>,<MAXTIME4><CR><br>Result:<br>#OK<CR> | ASCII | NO |
| | MINTIME1 | 10 | | |
| | MAXTIME1 | 20 | | |
| | MINTIME2 | 10 | | |
| | MAXTIME2 | 20 | | |
| | MINTIME3 | 10 | | |
| | MAXTIME3 | 20 | | |
| | MINTIME4 | 10 | | |
| | MAXTIME4 | 20 | | |
| | TX | #1,STIMES:10,20,10,20,10,20,10,20<CR> | | |
| | RX | N/A | | |

Sets the new minimum and maximum times for all LED groups for the three modes FLASH, RANDOM and SEQUENCE.
MINTIME: The new value for the minimum time.
In the modes FLASH and SEQUENCE, this time defines the ON time span of the three outputs with the three values LOx.
The OFF time span with the three values 0 is defined with the MAXTIME parameter.
The parameter specifies a time in 1/10s.
In the mode RANDOM this time defines the minimum time span between two random value changes.
The parameter specifies a time span in seconds.

MAXTIME: The new value for the maximum time.
In the modes FLASH and SEQUENCE, this time defines the OFF time span of the three outputs with the three values LOx.
The OFF time span with the three values LOx is defined with the MINTIME parameter.
The parameter specifies a time in 1/10s.
In the mode RANDOM this time defines the minimum time span between two random value changes.
The parameter specifies a time span in seconds.

| | | | | |
|---|---|---|---|---|
| SET TIMEx | ASCII<br>WRITE<br>COMMAND | #STIME<LEDGROUP>:<MINTIME>,<MAXTIME><CR><br>Result:<br>#OK<CR> | ASCII | NO |
| | LEDGROUP | 1 | | |
| | MINTIME | 10 | | |
| | MAXTIME | 11 | | |
| | TX | #1,STIME1:10,11<CR> | | |
| | RX | N/A | | |

Sets the new minimum and maximum times for the LED group LEDGROUP for the three modes FLASH, RANDOM and SEQUENCE.
MINTIME: The new value for the minimum time.
In the modes FLASH and SEQUENCE, this time defines the ON time span of the three outputs with the three values LOx.
The OFF time span with the three values 0 is defined with the MAXTIME parameter.
The parameter specifies a time in 1/10s.
In the mode RANDOM this time defines the minimum time span between two random value changes.
The parameter specifies a time span in seconds.

MAXTIME: The new value for the maximum time.
In the modes FLASH and SEQUENCE, this time defines the OFF time span of the three outputs with the three values LOx.
The OFF time span with the three values LOx is defined with the MINTIME parameter.
The parameter specifies a time in 1/10s.
In the mode RANDOM this time defines the minimum time span between two random value changes.
The parameter specifies a time span in seconds.

| | | | | |
|---|---|---|---|---|
| GET TIMES | ASCII<br>READ<br>COMMAND | #GTIMES<CR><br>Result:<br>#GTIMES:<MINTIME1Dec>,<MAXTIME1Dec>,<MINTIME2Dec>,<MAXTIME2Dec>,<br><MINTIME3Dec>,<MAXTIME3Dec>,<MINTIME4Dec>,<MAXTIME4Dec>,<br><MINTIME1Hex>,<MAXTIME1Hex>,<MINTIME2Hex>,<MAXTIME2Hex>,<br><MINTIME3Hex>,<MAXTIME3Hex>,<MINTIME4Hex>,<MAXTIME4Hex><CR> | ASCII | |
| | TX | #1,GTIMES<CR> | | |
| | RX | #1,GTIMES:10,10,10,10,10,10,10,10,0xA,0xA,0xA,0xA,0xA,0xA,0xA,0xA<CR> | | |
| | | Current minimum time for group 1: 1,00s | | |
| | | Current maximum time for group 1: 1,00s | | |
| | | Current minimum time for group 2: 1,00s | | |
| | | Current maximum time for group 2: 1,00s | | |
| | | Current minimum time for group 3: 1,00s | | |

| | | | | |
|---|---|---|---|---|
| | | Current maximum time for group 3: 1,00s | | |
| | | Current minimum time for group 4: 1,00s | | |
| | | Current maximum time for group 4: 1,00s | | |
| Returns the current minimum and maximum times of all LED groups.<br>MINTIMExDec,MINTIMExHex: The current value for the minimum time. In the modes FLASH and SEQUENCE in 1/10s.<br>In the mode RANDOM in seconds.<br>MAXTIMExDec,MAXTIMExHex: The current value for the maximum time. In the modes FLASH and SEQUENCE in 1/10s.<br>In the mode RANDOM in seconds. | | | | |
| GET TIMEx | ASCII<br>READ<br>COMMAND | #GTIME<LEDGROUP><CR><br>Result:<br>#GTIME<LEDGROUP>:<MINTIMEDec>,<MAXTIMEDec>,<MINTIMEHex>,<MAXTIMEHex><CR> | ASCII | |
| | LEDGROUP | 1 | | |
| | TX | #1,GTIME1<CR> | | |
| | RX | #1,GTIME1:10,10,0xA,0xA<CR> | | |
| | | Current minimum time for group 1: 1,00s | | |
| | | Current maximum time for group 1: 1,00s | | |
| Returns the current minimum and maximum times of the LED group LEDGROUP .<br>MINTIMEDec,MINTIMEHex: The current value for the minimum time. In the modes FLASH and SEQUENCE in 1/10s.<br>In the mode RANDOM in seconds.<br>MAXTIMEDec,MAXTIMEHex: The current value for the maximum time. In the modes FLASH and SEQUENCE in 1/10s.<br>In the mode RANDOM in seconds. | | | | |
| SET ALLx | ASCII<br>WRITE<br>COMMAND | #SALL<LEDNR>:<MODE>,<LOA>,<LOB>,<LOC>,<br><MINTIME>,<MAXTIME>,<FADE><CR><br>Result:<br>#OK<CR> | ASCII | NO |
| | LEDGROUP | 1 | | |
| | MODE | 4:RANDOM | | |
| | LOA | 500 | | |
| | LOB | 300 | | |
| | LOC | 200 | | |
| | MINTIME | 10 | | |
| | MAXTIME | 11 | | |
| | FADE | 3 | | |
| | TX | #1,SALL<LEDNR>:4,500,300,200,10,11,3<CR> | | |
| | RX | N/A | | |

Sets all values for one LED group LEDGROUP with one command.
MODE: The new mode for the affected LED group
=0: OFF: All three outputs of the affected LED group are immediately switched to 0
=1: ON: All three outputs of the affected LED group are dimmed to the values LOx immediately
=2: FLASH: All three outputs of the affected LED group flashes in the rhythm of the parameterized minimum and maximum times with the three set point values LOx.
=3: FADE: All three outputs of the affected LED group fade with the current speed FADE SPEED to the new values LOx.
=4: RANDOM: All three outputs of the affected LED group dices a random number for each channel in the range of 0 to LOx.
Then the three outputs fade to the new values with the current FADE SPEED.
After a random pause between the configured minimum and maximum time in seconds, this procedure will be repeated.
=5: SEQUENCE: All three outputs of the affected LED group flashes successively with the three set points LOx.
The three outputs are on for the time period MIN TIME in 1/10s.
In between the three outputs are 0 for a time period MAXTIME in 1/10s.

LOA: The new value of the PWM output LO A in the range of 0..4095 or 0x000 to 0xFFF
LOB: The new value of the PWM output LO B in the range of 0..4095 or 0x000 to 0xFFF
LOC: The new value of the PWM output LO C in the range of 0..4095 or 0x000 to 0xFFF

MINTIME: The new value for the minimum time.
In the modes FLASH and SEQUENCE, this time defines the ON time span of the three outputs with the three values LOx.
The OFF time span with the three values 0 is defined with the MAXTIME parameter. The parameter specifies a time in 1/10s.
In the mode RANDOM this time defines the minimum time span between two random value changes.
The parameter specifies a time span in seconds.

MAXTIME: The new value for the maximum time.
In the modes FLASH and SEQUENCE, this time defines the OFF time span of the three outputs with the three values LOx.
The ON time span with the three values LOx is defined with the MAXTIME parameter. The parameter specifies a time in 1/10s.
In the mode RANDOM this time defines the minimum time span between two random value changes. The parameter specifies a time span in seconds.

FADEx:The new speed for fading in steps per 1/100s.

| | | | | |
|---|---|---|---|---|
| GET ALLx | ASCII<br>READ<br>COMMAND | #GALL<LEDGROUP><CR><br>Result:<br>#GALL<LEDGROUP>:<MODEDec>,<LOADec>,<LOBDec>,<LOCDec>,<br><MINTIMEDec>,<MAXTIMEDec>,<FADEDec>,<br><CLOADec>,<CLOBDec>,<CLOCDec>,<RLOADec>,<RLOBDec>,<RLOCDec>,<br><MODEHex>,<LOAHex>,<LOBHex>,<LOCHex>,<br><MINTIMEHex>,<MAXTIMEHex>,<FADEHex>,<br><CLOAHex>,<CLOBHex>,<CLOCHex>,<RLOAHex>,<RLOBHex>,<RLOCHex>,<CR> | ASCII | |
| | LEDGROUP | 1 | | |
| | TX | #1,GALL1<CR> | | |
| | RX | #1,GALL1:6,0,0,0,10,10,10,2600,4095,0,0,0,0,0x6,0x0,0x0,0x0,0x0,0xA,0xA,0xA,0xA28,0xFFF,0x0,0x0,0x0,0x0,0x0<CR> | | |
| | | Current mode for group: 1:6:HSVEFFECS | | |
| | | Current value of PWM output A:0->0,00% | | |
| | | Current value of PWM output B:0->0,00% | | |
| | | Current value of PWM output C:0->0,00% | | |
| | | Current minimum time for group 1: 1,00s | | |
| | | Current maximum time for group 1: 1,00s | | |
| | | Current fade for group: 1:10 | | |
| | | Current real output value of PWM output A:2600->63,49% | | |
| | | Current real output value of PWM output B:4095->100,00% | | |

| | | | | |
|---|---|---|---|---|
| | | Current real output value of PWM output C:0->0,00% | | |
| | | Current random output value of PWM output A:0->0,00% | | |
| | | Current random output value of PWM output B:0->0,00% | | |
| | | Current random output value of PWM output C:0->0,00% | | |

Returns the current values of one LED group LEDGROUP in one answer.

MODEDec,MODEHex:The new mode for the affected LED group. See MODE description ion command GALL
LOADec,LOAHex: The new value of the PWM output LO A in the range of 0..4095 or 0x000 to 0xFFF
LOBDec,LOBHex: The new value of the PWM output LO B in the range of 0..4095 or 0x000 to 0xFFF
LOCDec,LOCHex: The new value of the PWM output LO C in the range of 0..4095 or 0x000 to 0xFFF

MINTIMEDec,MINTIMEHex: The new value for the minimum time.
In the modes FLASH and SEQUENCE, this time defines the ON time span of the three outputs with the three values LOx. The OFF time span with the three values 0 is defined with the MAXTIME parameter.
The parameter specifies a time in 1/10s.
In the mode RANDOM this time defines the minimum time span between two random value changes. The parameter specifies a time span in seconds.

MAXTIMEDec,MAXTIMEHex: The new value for the maximum time.
In the modes FLASH and SEQUENCE, this time defines the OFF time span of the three outputs with the three values LOx. The ON time span with the three values LOx is defined with the MINTIME parameter.
The parameter specifies a time in 1/10s.
In the mode RANDOM this time defines the minimum time span between two random value changes. The parameter specifies a time span in seconds.

FADEDec,FADEHex: The new speed for fading in steps per 1/100s.

CLOADec,CLOAHex: The current output value of the output A in the range of 0 to 4095 or 0x000 to 0xFFF including dimming and mode information.
CLOBDec,CLOBHex: The current output value of the output B in the range of 0 to 4095 or 0x000 to 0xFFF including dimming and mode information.
CLOCDec,CLOCHex: The current output value of the output C in the range of 0 to 4095 or 0x000 to 0xFFF including dimming and mode information.

RLOADec,RLOAHex: The last diced value in mode RANDOM for output A in the range of 0 to 4095 or 0x000 to 0xFFF.
RLOBDec,RLOBHex: The last diced value in mode RANDOM for output B in the range of 0 to 4095 or 0x000 to 0xFFF.
RLOCDec,RLOCHex: The last diced value in mode RANDOM for output C in the range of 0 to 4095 or 0x000 to 0xFFF.

| | | | | |
|---|---|---|---|---|
| GET CURRENT LOS | ASCII<br>READ<br>COMMAND | #GCLOS<CR><br>Result:<br>#GCLOS:<CLO1Dec>,<CLO2Dec>,...,<CLO12Dec>,<br><CLO1Hex>,<CLO2Hex>,...,<CLO12Hex><CR> | ASCII | |
| | TX | #1,GCLOS<CR> | | |
| | RX | #1,GCLOS:2436,4095,0,0,0,0,0,0,0,0,0,0,0x984,0xFFF,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0<CR> | | |
| | | Current real output of PWM output 1:2436->59,49% | | |
| | | Current real output of PWM output 2:4095->100,00% | | |
| | | Current real output of PWM output 3:0->0,00% | | |
| | | Current real output of PWM output 4:0->0,00% | | |
| | | Current real output of PWM output 5:0->0,00% | | |
| | | Current real output of PWM output 6:0->0,00% | | |
| | | Current real output of PWM output 7:0->0,00% | | |
| | | Current real output of PWM output 8:0->0,00% | | |
| | | Current real output of PWM output 9:0->0,00% | | |
| | | Current real output of PWM output 10:0->0,00% | | |
| | | Current real output of PWM output 11:0->0,00% | | |
| | | Current real output of PWM output 12:0->0,00% | | |

Returns all current values of all outputs Ox on the LED module
.CLOxDec,CLOxHex: The real value of the output Ox in the range of 0 to 4095 or 0x000 to 0xFFF, including all fading and all modes.

| | | | | |
|---|---|---|---|---|
| GET CURRENT LOx | ASCII<br>READ<br>COMMAND | #GCLO<LONR><CR><br>Result:<br>#GCLO<LONR>:<CLOxDec>,<CLOxHex><CR> | ASCII | |
| | LONR | 1 | | |
| | TX | #1,GCLO1<CR> | | |
| | RX | #1,GCLO1:2347,0x92B<CR> | | |
| | | Current real output of PWM output 1:2347->57,31% | | |
| Returns the current value of the output channel LONR.<br>CLOxDec,CLOxHex: The real value of the output Ox in the range of 0 to 4095 or 0x000 to 0xFFF, including all fading and all modes. | | | | |
| GET RANDOM LOS | ASCII<br>READ<br>COMMAND | #GRLOS<CR><br>Result:<br>#GRLOS:<RLO1Dec>,<RLO2Dec>,...,<RLO12Dec>,<br><RLO1Hex>,<RLO2Hex>,...,<RLO12Hex><CR> | ASCII | |
| | TX | #1,GRLOS<CR> | | |
| | RX | #1,GRLOS:0,0,0,0,0,0,0,0,0,0,0,0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0,0x0<CR> | | |
| | | Current random output of PWM output 1:0->0,00% | | |
| | | Current random output of PWM output 2:0->0,00% | | |
| | | Current random output of PWM output 3:0->0,00% | | |
| | | Current random output of PWM output 4:0->0,00% | | |
| | | Current random output of PWM output 5:0->0,00% | | |
| | | Current random output of PWM output 6:0->0,00% | | |
| | | Current random output of PWM output 7:0->0,00% | | |
| | | Current random output of PWM output 8:0->0,00% | | |
| | | Current random output of PWM output 9:0->0,00% | | |
| | | Current random output of PWM output 10:0->0,00% | | |
| | | Current random output of PWM output 11:0->0,00% | | |
| | | Current random output of PWM output 12:0->0,00% | | |
| Returns the last diced values for the outputs O1, O2 up to O12 in mode RANDOM.<br>RLOxDec,RLOxHex: The last diced number in mode RANDOM for output x in the range of 0 to 4095 or 0x000 to 0xFFF | | | | |
| GET RANDOM LOx | ASCII<br>READ<br>COMMAND | #GRLO<LONR><CR><br>Result:<br>#GRLO<LONR>:<RLOxDec>,<RLOxHex><CR> | ASCII | |
| | LONR | 1 | | |
| | TX | #1,GRLO1<CR> | | |
| | RX | #1,GRLO1:0,0x0<CR> | | |
| | | Current random output of PWM output 1:0->0,00% | | |
| Returns the last diced values for the output channel LONR in mode RANDOM.<br>RLOxDec,RLOxHex: The last diced number in mode RANDOM for output Ox in the range of 0 to 4095 or 0x000 to 0xFFF. | | | | |
| LED PWM OUTPUTS in HSV color MODEL | | | | |
| SET HSV LEDGROUPS | ASCII<br>WRITE<br>COMMAND | #SHSVS:<HUE1>,<SATURATION1>,<VALUE1>,<br><HUE2>,<SATURATION2>,<VALUE2>,<br><HUE3>,<SATURATION3>,<VALUE3>,<br><HUE4>,<SATURATION4>,<VALUE4><CR><br>Result:<br>#OK<CR> | ASCII | YES |
| | HUE1 | 120,000 | | |
| | SATURATION1 | 100,000 | | |

| | | | | |
|---|---|---|---|---|
| | VALUE1 | 20,550 | | |
| | HUE2 | 120,000 | | |
| | SATURATION2 | 100,000 | | |
| | VALUE2 | 20,550 | | |
| | HUE3 | 120,000 | | |
| | SATURATION3 | 100,000 | | |
| | VALUE3 | 20,550 | | |
| | HUE4 | 120,000 | | |
| | SATURATION4 | 100,000 | | |
| | VALUE4 | 20,550 | | |
| | TX | #1,SHSVS:120,100,20.55,120,100,20.55,120,100,20.55,120,100,20.55<CR> | | |
| | RX | #1,OK<CR> | | |
| Sets new HSV values for all LED groups using the HSV color model.<br>HUEx: The actual hue between 0 and 360.0 degree for LED group x.<br>SATURATIONx:The actual saturation between 0 and 100.0% for LED group x.<br>VALUEx:The actual value between 0 and 100.0% for LED group x. | | | | |
| SET HSV LEDGROUPx | ASCII<br>WRITE<br>COMMAND | #SHSV<LEDGROUP>:<HUE>,<SATURATION>,<VALUE><CR><br>Result:<br>#OK<CR> | ASCII | YES |
| | LEDGROUP | 1 | | |
| | HUE | 120,000 | | |
| | SATURATION | 100,000 | | |
| | VALUE | 20,550 | | |
| | TX | #1,SHSV1:120,100,20.55<CR> | | |
| | RX | #1,OK<CR> | | |
| Sets new HSV values for the LED group LEDGROUP using the HSV color model.<br>HUE: The actual hue between 0 and 360.0 degree.<br>SATURATION:The actual saturation between 0 and 100.0%<br>VALUE:The actual value between 0 and 100.0% | | | | |
| GET CURRENT HSV LEDGROUPS | ASCII<br>READ<br>COMMAND | #GCHSVS<CR><br>Result:<br>#GCHSVS:<CHUE1Dbl>,<CSATURATION1Dbl>,<CVALUE1Dbl>,<br><CHUE2Dbl>,<CSATURATION2Dbl>,<CVALUE2Dbl>,<br><CHUE3Dbl>,<CSATURATION3Dbl>,<CVALUE3Dbl>,<br><CHUE4Dbl>,<CSATURATION4Dbl>,<CVALUE4Dbl><CR> | ASCII | |
| | TX | #1,GCHSVS<CR> | | |
| | RX | #1,GCHSVS:89.304,100.000,100.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000<CR> | | |
| | | PWM group 1:current real HSV HUE output 89.304° | | |
| | | PWM group 1:current real HSV SATURATION output 100.000% | | |
| | | PWM group 1:current real HSV VALUE output 100.000% | | |
| | | PWM group 2:current real HSV HUE output 0.000° | | |
| | | PWM group 2:current real HSV SATURATION output 0.000% | | |
| | | PWM group 2:current real HSV VALUE output 0.000% | | |
| | | PWM group 3:current real HSV HUE output 0.000° | | |
| | | PWM group 3:current real HSV SATURATION output 0.000% | | |
| | | PWM group 3:current real HSV VALUE output 0.000% | | |
| | | PWM group 4:current real HSV HUE output 0.000° | | |

| | | | | |
|---|---|---|---|---|
| | | PWM group 4:current real HSV SATURATION output 0.000% | | |
| | | PWM group 4:current real HSV VALUE output 0.000% | | |
| Returns the current HSV values of all LED groups for the HSV color model.<br>CHUExDbl: The actual hue between 0 and 360.0 degree for LED group x.<br>CSATURATIONxDbl:The actual saturation between 0 and 100.0% for LED group x<br>CVALUExDbl:The actual value between 0 and 100.0% for LED group x | | | | |
| GET CURRENT HSV LEDGROUPx | ASCII<br>READ<br>COMMAND | #GCHSV<LEDGROUP><CR><br>Result:<br>#GCHSV<LEDGROUP>:<CHUEDbl>,<CSATURATIONDbl>,<CVALUEDbl><CR> | ASCII | |
| | LEDGROUP | 1 | | |
| | TX | #1,GCHSV1<CR> | | |
| | RX | #1,GCHSV1:90.608,100.000,100.000<CR> | | |
| | | Current real HSV HUE output of PWM group 1: 90.608° | | |
| | | Current real HSV SATURATION output of PWM group 1: 100.000% | | |
| | | Current real HSV VALUE output of PWM group 1: 100.000% | | |
| Returns the current HSV values of the LED group LEDGROUP for the HSV color model.<br>CHUEDbl: The actual hue between 0 and 360.0 degree.<br>CSATURATIONDbl:The actual saturation between 0 and 100.0%<br>CVALUEDbl:The actual value between 0 and 100.0% | | | | |
| LED PWM OUTPUTS in RGB color MODEL | | | | |
| SET RGB LEDGROUPS | ASCII<br>WRITE<br>COMMAND | #SRGBS:<RED1>,<GREEN1>,<BLUE1>,<br><RED2>,<GREEN2>,<BLUE2>,<br><RED3>,<GREEN3>,<BLUE3>,<br><RED4>,<GREEN4>,<BLUE4><CR><br>Result:<br>#OK<CR> | ASCII | YES |
| | RED1 | 100,000 | | |
| | GREEN1 | 80,000 | | |
| | BLUE1 | 20,000 | | |
| | RED2 | 100,000 | | |
| | GREEN2 | 80,000 | | |
| | BLUE2 | 20,000 | | |
| | RED3 | 100,000 | | |
| | GREEN3 | 80,000 | | |
| | BLUE3 | 20,000 | | |
| | RED4 | 100,000 | | |
| | GREEN4 | 80,000 | | |
| | BLUE4 | 20,000 | | |
| | TX | #1,SRGBS:100,80,20,100,80,20,100,80,20,100,80,20<CR> | | |
| | RX | #1,OK<CR> | | |
| Sets new RGB values for all LED groups using the RGB color model.<br>REDx: The actual RED between 0 and 100.0% for LED group x.<br>GREENx: The actual GREEN between 0 and 100.0% for LED group x.<br>BLUEx: The actual BLUE between 0 and 100.0% for LED group x. | | | | |
| SET RGB LEDGROUPx | ASCII<br>WRITE<br>COMMAND | #SRGB<LEDGROUP>:<RED>,<GREEN>,<BLUE><CR><br>Result:<br>#OK<CR> | ASCII | YES |
| | LEDGROUP | 1 | | |

| | | | | |
|---|---|---|---|---|
| | RED | 100,000 | | |
| | GREEN | 80,000 | | |
| | BLUE | 20,000 | | |
| | TX | #1,SRGB1:100,80,20<CR> | | |
| | RX | #1,OK<CR> | | |
| Sets new RGB values for LED group LEDGORUP using the RGB color model.<br>RED: The actual RED between 0 and 100.0%<br>GREEN: The actual GREEN between 0 and 100.0%<br>BLUE: The actual BLUE between 0 and 100.0% | | | | |
| GET CURRENT RGB LEDGROUPS | ASCII<br>READ<br>COMMAND | #GCRGBS<CR><br>Result:<br>#GCRGBS:<CRED1Dbl>,<CGREEN1Dbl>,<CBLUE1Dbl>,<br><CRED2Dbl>,<CGREEN2Dbl>,<CBLUE2Dbl>,<br><CRED3Dbl>,<CGREEN3Dbl>,<CBLUE3Dbl>,<br><CRED4Dbl>,<CGREEN4Dbl>,<CBLUE4Dbl><CR> | ASCII | |
| | TX | #1,GCRGBS<CR> | | |
| | RX | #1,GCRGBS:46.813,100.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000<CR> | | |
| | | PWM group 1:current real RGB RED output 46.813% | | |
| | | PWM group 1:current real RGB GREEN output 100.000% | | |
| | | PWM group 1:current real RGB BLUE output 0.000% | | |
| | | PWM group 2:current real RGB RED output 0.000% | | |
| | | PWM group 2:current real RGB GREEN output 0.000% | | |
| | | PWM group 2:current real RGB BLUE output 0.000% | | |
| | | PWM group 3:current real RGB RED output 0.000% | | |
| | | PWM group 3:current real RGB GREEN output 0.000% | | |
| | | PWM group 3:current real RGB BLUE output 0.000% | | |
| | | PWM group 4:current real RGB RED output 0.000% | | |
| | | PWM group 4:current real RGB GREEN output 0.000% | | |
| | | PWM group 4:current real RGB BLUE output 0.000% | | |
| Returns the current RGB values of all LED groups for the RGB color model.<br>CREDxDbl: The actual RED part between 0 and 100.0% for LED group x<br>CGREENxDbl:The actual GREEN part between 0 and 100.0% for LED group x<br>CBLUExDbl:The actual BLUE part between 0 and 100.0% for LED group x | | | | |
| GET CURRENT RGB LEDGROUPx | ASCII<br>READ<br>COMMAND | #GCRGB<LEDGROUP><CR><br>Result:<br>#GCRGB<LEDGROUP>:<CREDDbl>,<CGREENDbl>,<CBLUEDbl><CR> | ASCII | |
| | LEDGROUP | 1 | | |
| | TX | #1,GCRGB1<CR> | | |
| | RX | #1,GCRGB1:42.662,100.000,0.000<CR> | | |
| | | Current real RGB RED output of PWM group 1: 42.662% | | |
| | | Current real RGB GREEN output of PWM group 1: 100.000% | | |
| | | Current real RGB BLUE output of PWM group 1: 0.000% | | |
| Returns the current RGB values of LED group LEDGROUP for the RGB color model.<br>CREDDbl: The actual RED part between 0 and 100.0%<br>CGREENDbl:The actual GREEN part between 0 and 100.0%<br>CBLUEDbl:The actual BLUE part between 0 and 100.0% | | | | |
| LED HSV EFFECTS | | | | |

| | | | | |
|---|---|---|---|---|
| SET HSV EFFECT ON ALL LEDGROUPS | ASCII<br>WRITE<br>COMMAND | #SHSVEFFALL:<MODE>,<br><HUEStart>,<HUEEnd>,<HUEIncDec>,<br><SATURATIONStart>,<SATURATIONEnd>,<SATURATIONIncDec>,<br><VALUEStart>,<VALUEEnd>,<VALUEIncDec><CR><br>Result:<br>#OK<CR> | ASCII | YES |
| | MODE | 2:UP-DOWN | | |
| | HUEStart | 0,000 | | |
| | HUEEnd | 20,000 | | |
| | HUEIncDec | 1,00000 | | |
| | SATURATIONStart | 100,000 | | |
| | SATURATIONEnd | 100,000 | | |
| | SATURATIONIncDec | 0,000 | | |
| | VALUEStart | 0,000 | | |
| | VALUEEnd | 100,000 | | |
| | VALUEIncDec | 5,000 | | |
| | TX | #1,SHSVEFFALL:2,0,20,1,100,100,0,0,100,5<CR> | | |
| | RX | #1,OK<CR> | | |

Sets a new HSV effect for all LED groups for the HSV color model.
This HSV effect starts the HSV effects on all LED groups synchronously. Therefore the MODE of all LED groups is set to 6:HSV EFFECTS to ensure a synched start.
The HSV effect will increment or decrement the current HSV values every 5ms. So a HSV start angle of 0° and an end angle of 360° with an increment value of 0.1° will output the complete color circle on the LED group

MODEDec:The current HSV effect mode
=0:UP:increment of HUE/SATURATON or VALUE
=1:DOWN:decrement of HUE/SATURATON or VALUE
=2: UP/DOWN:alternate increment and decrement of HUE/SATURATON or VALUE
HUECurrentDbl: The actual calculated hue between 0 and 360.0 degree
HUEStartDbl: The start angle for hue effect between 0 and 360.0 degree
HUEEndDbl: The end angle for hue effect between 0 and 360.0 degree
HUEIncDecDbl: The increment/decrement angle for hue effect between 0 and 360.0 degree.
This value is added or subtracted every 5ms from current hue value, depending on MODE setting.

SATURATIONCurrentDbl: The actual calculated saturation between 0 and 100.0%
SATURATIONStartDbl: The start percentage for saturation effect between 0 and 100.0%
SATURATIONEndDbl: The end percentage for saturation effect between 0 and 100.0%
SATURATIONIncDecDbl: The increment/decrement percentage for saturation effect between 0 and 100.0%.
This value is added or subtracted every 5ms from current saturation value, depending on MODE setting.

VALUECurrentDbl: The actual calculated value between 0 and 100.0%
VALUEStartDbl: The start percentage for value effect between 0 and 100.0%
VALUEEndDbl: The end percentage for value effect between 0 and 100.0%
VALUEIncDecDbl: The increment/decrement percentage for value effect between 0 and 100.0%.
This value is added or subtracted every 5ms from current value value, depending on MODE setting.

| | | | | |
|---|---|---|---|---|
| SET HSV EFFECT LEDGROUPx | ASCII<br>WRITE<br>COMMAND | #SHSVEFF<LEDGROUP>:<MODE>,<br><HUEStart>,<HUEEnd>,<HUEIncDec>,<br><SATURATIONStart>,<SATURATIONEnd>,<SATURATIONIncDec>,<br><VALUEStart>,<VALUEEnd>,<VALUEIncDec><CR><br>Result:<br>#OK<CR> | ASCII | NO |

| | | | | |
|---|---|---|---|---|
| | LEDGROUP | 1 | | |
| | MODE | 0:UP | | |
| | HUEStart | 0,000 | | |
| | HUEEnd | 360,000 | | |
| | HUEIncDec | 0,00010 | | |
| | SATURATIONStart | 100,000 | | |
| | SATURATIONEnd | 100,000 | | |
| | SATURATIONIncDec | 0,000 | | |
| | VALUEStart | 100,000 | | |
| | VALUEEnd | 100,000 | | |
| | VALUEIncDec | 0,000 | | |
| | TX | #1,SHSVEFF1:0,0,360,0.0001,100,100,0,100,100,0<CR> | | |
| | RX | #1,OK<CR> | | |

Sets a new HSV effect for LED group LEDGROUP for the HSV color model.
This HSV effect starts, when the MODE of the LED group is set to 6:HSV EFFECTS
The HSV effect will increment or decrement the current HSV values every 5ms. So a HSV start angle of 0° and an end angle of 360° with an increment value of 0.1° will output the complete color circle on the LED group

MODEDec:The current HSV effect mode
=0:UP:increment of HUE/SATURATON or VALUE
=1:DOWN:decrement of HUE/SATURATON or VALUE
=2: UP/DOWN:alternate increment and decrement of HUE/SATURATON or VALUE
HUECurrentDbl: The actual calculated hue between 0 and 360.0 degree
HUEStartDbl: The start angle for hue effect between 0 and 360.0 degree
HUEEndDbl: The end angle for hue effect between 0 and 360.0 degree
HUEIncDecDbl: The increment/decrement angle for hue effect between 0 and 360.0 degree.
This value is added or subtracted every 5ms from current hue value, depending on MODE setting.

SATURATIONCurrentDbl: The actual calculated saturation between 0 and 100.0%
SATURATIONStartDbl: The start percentage for saturation effect between 0 and 100.0%
SATURATIONEndDbl: The end percentage for saturation effect between 0 and 100.0%
SATURATIONIncDecDbl: The increment/decrement percentage for saturation effect between 0 and 100.0%.
This value is added or subtracted every 5ms from current saturation value, depending on MODE setting.

VALUECurrentDbl: The actual calculated value between 0 and 100.0%
VALUEStartDbl: The start percentage for value effect between 0 and 100.0%
VALUEEndDbl: The end percentage for value effect between 0 and 100.0%
VALUEIncDecDbl: The increment/decrement percentage for value effect between 0 and 100.0%.
This value is added or subtracted every 5ms from current value value, depending on MODE setting.

| | | | | |
|---|---|---|---|---|
| GET HSV EFFECT LEDGROUPx | ASCII<br>READ<br>COMMAND | #GHSVEFF<LEDGROUP><CR><br>Result:<br>#GHSVEFF<LEDGROUP>:<MODEDec>,<br><HUECurrentDbl>,<HUEStartDbl>,<HUEEndDbl>,<HUEIncDecDbl>,<br><SATURATIONCurrentDbl>,<SATURATIONStartDbl>,<SATURATIONEndDbl>,<br><SATURATIONIncDecDbl>,<br><VALUECurrentDbl>,<VALUEStartDbl>,<VALUEEndDbl>,<VALUEIncDecDbl>,<br><CR> | ASCII | |
| | LEDGROUP | 1 | | |
| | TX | #1,GHSVEFF1<CR> | | |

| | | | | |
|---|---|---|---|---|
| | RX | #1,GHSVEFF1:0,96.0000,0.0000,360.0000,0.1000,100.0000,100.0000,100.0000,0.0000,100.0000,100.0000,100.0000,0.0000,<CR> | | |
| | | PWM group 1:HSV effect current mode 0:UP | | |
| | | PWM group 1:HSV effect HUE current 96.0000° | | |
| | | PWM group 1:HSV effect HUE start 0.0000° | | |
| | | PWM group 1:HSV effect HUE end 360.0000° | | |
| | | PWM group 1:HSV effect HUE increment/decrement 0.1000° | | |
| | | PWM group 1:HSV effect SATURATION current 100.0000% | | |
| | | PWM group 1:HSV effect SATURATION start 100.0000% | | |
| | | PWM group 1:HSV effect SATURATION end 100.0000% | | |
| | | PWM group 1:HSV effect SATURATION increment/decrement 0.0000% | | |
| | | PWM group 1:HSV effect VALUE current 100.0000% | | |
| | | PWM group 1:HSV effect VALUE start 100.0000% | | |
| | | PWM group 1:HSV effect VALUE end 100.0000% | | |
| | | PWM group 1:HSV effect VALUE increment/decrement 0.0000% | | |

Returns the current HSV effect settings for LED group LEDGROUP for the HSV color model.
MODEDec:The current effect mode
=0:UP:increment of HUE/SATURATON or VALUE
=1:DOWN:decrement of HUE/SATURATON or VALUE
=2: UP/DOWN:alternate increment and decrement of HUE/SATURATON or VALUE
HUECurrentDbl: The actual calculated hue between 0 and 360.0 degree
HUEStartDbl: The start angle for hue effect between 0 and 360.0 degree
HUEEndDbl: The end angle for hue effect between 0 and 360.0 degree
HUEIncDecDbl: The increment/decrement angle for hue effect between 0 and 360.0 degree.
This value is added or subtracted every 5ms from current hue value, depending on MODE setting.

SATURATIONCurrentDbl: The actual calculated saturation between 0 and 100.0%
SATURATIONStartDbl: The start percentage for saturation effect between 0 and 100.0%
SATURATIONEndDbl: The end percentage for saturation effect between 0 and 100.0%
SATURATIONIncDecDbl: The increment/decrement percentage for saturation effect between 0 and 100.0%.
This value is added or subtracted every 5ms from current saturation value, depending on MODE setting.

VALUECurrentDbl: The actual calculated value between 0 and 100.0%
VALUEStartDbl: The start percentage for value effect between 0 and 100.0%
VALUEEndDbl: The end percentage for value effect between 0 and 100.0%
VALUEIncDecDbl: The increment/decrement percentage for value effect between 0 and 100.0%.
This value is added or subtracted every 5ms from current value value, depending on MODE setting.