

RESI's NEW MBUS PORTFOLIO

Our revision of MBUS gateways and MODBUSConfigurator software

NEW



RESI-MBUSx-SIO RESI-MBUSx-ETH

New enhanced firmware
Improved MODBUSConfigurator software
More gateway versions

- RESI-MBUS2-xxx: 2 meter, 40 register
- RESI-MBUS8-xxx: 8 meter, 400 register
- RESI-MBUS24-xxx: 24 meter, 1000 register
- RESI-MBUS48-xxx: 48 meter, 1200 register

NEW
RESI-MBUS64-xxx: 64 meter, 1200 register



NEW

MODBUSConfigurator

New design, more features:

- Improved search functions for meters
- New function: Erase configuration
- New function: Send application reset to meter
- Integrated LEVEL converter for using with other software tools (e.g. Configuration software for meters)
- Improved display of data grid in test mode
- Display of word order in MODBUS register for easy understanding of mapping
- New MODBUS data types for better mapping

MB register	MBUS database	MB database	Content	MBUS index	MB value HEX	Current MB value	Meter name
4x0025	FLOAT32[4]	FLOAT32	Energy:10°Wh(U,0.T,1.S,0)	74	MSW:0000.0000LSW	0.0000.0.00000000000000E+0	Meter C
4x0027	FLOAT32[4]	FLOAT32	Energy:10°Wh(U,0.T,1.S,0)	75	MSW:0000.0000LSW	0.0000.0.00000000000000E+0	Meter C
4x0029	INT16[2]	UINT16	Error flags (binary)	0	WOPD:0000	0.000000	Meter 1
4x0028	INT32[4]	UINT32	Accuracy deviation minutes	1	MSW:002A.3EFFLSW	278639.0002A3EFF	Meter 1
4x0028	INT32[4]	DATE_TIME	Time&Date date,type F	2	MSW:228A.6089LSW	06.09.D.M.Y.10.02.20.ST.0.V.0.0.228A6089	Meter 1
4x0024	INT32[4]	FLOAT32	Energy:10°Wh	3	MSW:4CEB.7940LSW	12.945000.0000.1.2.2450000000000E+8	Meter 1
4x0026	INT32[4]	FLOAT32	Volume:10°m³	4	MSW:4E02.EC33LSW	1775.4000.1.775.400024146E+3	Meter 1
4x0028	INT32[4]	FLOAT32	Energy:10°Wh(U,0.T,1.S,0)	5	MSW:4C2B.1B04LSW	44330000.0004.4.3300000000000E+7	Meter 1
4x0028	INT32[4]	FLOAT32	Energy:10°Wh	6	MSW:446C.ACCDLSW	666.7000.5.6670001220731E+2	Meter 1
4x0028	BCD[4]	SINT32	Enhanced identification(U,1.T,8.S,0)	7	MSW:0000.0001LSW	1.000000001	Meter 1
4x0024	INT32[4]	FLOAT32	Volume:10°m³(U,0.T,1.S,0)	8	MSW:4442.4000LSW	777.0000.7.77700000000000E+2	Meter 1
4x0026	BCD[4]	SINT32	Enhanced identification(U,2.T,8.S,0)	9	MSW:0000.0002LSW	2.000000002	Meter 1
4x0028	INT32[4]	FLOAT32	Volume:10°m³(U,2.T,1.S,0)	10	MSW:400A.E333LSW	555.5500.5.555499977939E+2	Meter 1
4x0030	FLOAT32[4]	FLOAT32	Flow temperature:10°°C	11	MSW:42E9.65C0LSW	52.8987.9.289730487500E+1	Meter 1
4x0032	FLOAT32[4]	FLOAT32	Radiator temperature:10°°C	12	MSW:4F15.6600LSW	30.6748.3.3674804687500E+1	Meter 1
4x0034	FLOAT32[4]	FLOAT32	Volume flow:10°m³/h	13	MSW:0000.0000LSW	0.0000.0.00000000000000E+0	Meter 1
4x0036	FLOAT32[4]	FLOAT32	Power:10°W	14	MSW:0000.0000LSW	0.0000.0.00000000000000E+0	Meter 1
4x0038	INT16[1]	UINT16	PT type	15	WOPD:0001	1.000001	Meter 1
4x0030	FLOAT32[4]	FLOAT32	Volume:10°m³/measurement per input pulse:16	16	MSW:3C2D.70A0LSW	0.0100.9.93999977640259E+3	Meter 1

IMPROVED METER SETTINGS

- Improved infos & settings for meter:
- Individual timing options for meter polling
- Interpretation of meter status
- Manufacturer name display
- Improved details for every MBUS datapoint
- Display of known manufacturer specific VIF extensions in mapping as text
- More details of the MBUS data frame
- Easy comma shifting with new MODBUS exponent

NEW

BETTER STATUS & INFO

- More & better status info per meter:
- New MODBUS registers to access data of fixed data header of meter
- Manufacturer
- Version
- Medium
- Access
- Status
- 10 new status registers per meter
- New communication state: Meter readout is asynchronous to configured MODBUS mapping

MB register	MBUS database	MB database	Content	MBUS index	MB value HEX	Current MB value	Meter name
4x0022	RESI	UINT16	Converter state for meter	STATE	WOPD:0003	3.000003 > Values are valid	Meter 04274245[AM.01.04] (S:0427C20D4245)
4x0023	HEADER	UINT32R	Identification number of meter	ID	LSW:4745.M5W0472	74598121.04674745	Meter 04274245[AM.01.04] (S:0427C20D4245)
4x0025	RESI	UINT16	Converter state for meter	STATE	WOPD:0003	3.000003 > Values are valid	Meter 09789304[AM.01.04] (S:09789304)
4x0026	HEADER	UINT32R	Identification number of meter	ID	LSW:0384.M5W0879	14281124.04609304	Meter 09789304[AM.01.04] (S:09789304)
4x0028	RESI	UINT16	Converter state for meter	STATE	WOPD:0003	3.000003 > Values are valid	Meter 10021778[AM.01.04] (S:10021778)
4x0029	HEADER	UINT32R	Identification number of meter	ID	LSW:1778.M5W1002	26857236.0410021778	Meter 10021778[AM.01.04] (S:10021778)
4x0031	RESI	UINT16	Converter state for meter	STATE	WOPD:0003	3.000003 > Values are valid	Meter 1077889[AM.01.04] (S:1077889)
4x0032	HEADER	UINT32R	Identification number of meter	ID	LSW:0893.M5W1077	27628287.041077889	Meter 1077889[AM.01.04] (S:1077889)
4x0034	RESI	UINT16	Converter state for meter	STATE	WOPD:0003	3.000003 > Values are valid	Meter 11140132[AM.01.04] (S:11140132)
4x0035	HEADER	UINT32R	Identification number of meter	ID	LSW:0152.M5W1140	28652388.0411140132	Meter 11140132[AM.01.04] (S:11140132)
4x0037	RESI	UINT16	Converter state for meter	STATE	WOPD:0003	3.000003 > Values are valid	Meter 14762519[AM.01.04] (S:14762519)
4x0038	HEADER	UINT32R	Identification number of meter	ID	LSW:2519.M5W1476	34238766.0414762519	Meter 14762519[AM.01.04] (S:14762519)
4x0001	HEADER	UINT32	Identification number of meter	ID	MSW:0905.0854LSW	322812.0009050854	Meter 00050854[AM.10.02] (S:02102070050854)
4x0002	RESI	UINT16	Manufacturer of meter	MANUFACTURER	MSW:0947.4149LSW	1947	Meter 00050854[AM.10.02] (S:02102070050854)
4x0005	HEADER	UINT16	Version of meter	VERSION	WOPD:0010	16.00010	Meter 00050854[AM.10.02] (S:02102070050854)
4x0006	HEADER	UINT16	Medium of meter	MEDIUM	WOPD:0002	2.000002 > Electricity	Meter 00050854[AM.10.02] (S:02102070050854)
4x0007	HEADER	UINT16	Access of meter	ACCESS	WOPD:0007	7.000007 > Values are valid	Meter 00050854[AM.10.02] (S:02102070050854)
4x0008	HEADER	UINT16	Status of meter	STATUS	WOPD:0000	0.000000	Meter 00050854[AM.10.02] (S:02102070050854)
4x0009	RESI	UINT16	Future value of meter	FUTURE	WOPD:0000	0.000000	Meter 00050854[AM.10.02] (S:02102070050854)
4x0010	RESI	UINT16	Communication state with meter	COMSTATE	WOPD:0003	3.000003 > Values are valid	Meter 00050854[AM.10.02] (S:02102070050854)
4x0011	HEADER	UINT32	Identification number of meter	ID	MSW:0604.4601LSW	10094381.06044601	Meter 06044601[AM.07.01] (S:06044601)
4x0013	HEADER	UINT32ASD	Manufacturer of meter	MANUFACTURER	MSW:094D.4149LSW	944	Meter 06044601[AM.07.01] (S:06044601)
4x0015	HEADER	UINT16	Version of meter	VERSION	WOPD:0007	7.000007	Meter 06044601[AM.07.01] (S:06044601)
4x0016	HEADER	UINT16	Medium of meter	MEDIUM	WOPD:000C	12.00000C > Heat Volume measured at low temperature inlet	Meter 06044601[AM.07.01] (S:06044601)
4x0017	HEADER	UINT16	Access of meter	ACCESS	WOPD:0007	7.000007	Meter 06044601[AM.07.01] (S:06044601)
4x0018	HEADER	UINT16	Status of meter	STATUS	WOPD:0000	0.000000	Meter 06044601[AM.07.01] (S:06044601)
4x0019	RESI	UINT16	Future value of meter	FUTURE	WOPD:0000	0.000000	Meter 06044601[AM.07.01] (S:06044601)
4x0020	RESI	UINT16	Communication state with meter	COMSTATE	WOPD:0003	3.000003 > Values are valid	Meter 06044601[AM.07.01] (S:06044601)
4x0021	HEADER	UINT32	Identification number of meter	ID	MSW:0636.4163LSW	104218979.06364163	Meter 06364163[AM.11.02] (S:02184C30634163)
4x0022	HEADER	UINT32ASD	Manufacturer of meter	MANUFACTURER	MSW:0643.4553LSW	SEC	Meter 06364163[AM.11.02] (S:02184C30634163)
4x0025	HEADER	UINT16	Version of meter	VERSION	WOPD:0018	24.00018	Meter 06364163[AM.11.02] (S:02184C30634163)
4x0026	HEADER	UINT16	Medium of meter	MEDIUM	WOPD:0002	2.000002 > Electricity	Meter 06364163[AM.11.02] (S:02184C30634163)
4x0027	HEADER	UINT16	Access of meter	ACCESS	WOPD:0007	7.000007	Meter 06364163[AM.11.02] (S:02184C30634163)
4x0028	HEADER	UINT16	Status of meter	STATUS	WOPD:0000	0.000000	Meter 06364163[AM.11.02] (S:02184C30634163)
4x0029	RESI	UINT16	Future value of meter	FUTURE	WOPD:0000	0.000000	Meter 06364163[AM.11.02] (S:02184C30634163)



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NEW

◀ ENHANCED FIRMWARE

- Mapping of fixed data header of meter to MODBUS registers
 - Manufacturer
 - Version
 - Medium
 - Access
 - Status
- Mapping of manufacturer data block at end of variable data record from meter
- New mode: LEVEL converter for use with 3rd party software

◀ MORE MODBUS DATA TYPES

- New MODBUS data types for mapping:
 - signed & unsigned INT16, INT32, INT64
 - FLOAT32, DOUBLE64
 - ASCII, BUFFER
 - DATE, DATE & TIME
- normal and reverse word order in MODBUS mapping to support almost any MODBUS master firmware



◀ FASTER MODBUS

- Faster MODBUS respond to MODBUS master
- Enhanced serial settings:
 - More baud rates: 300-256.000bd
 - Parity: none, even & odd
 - Stop bits: 1 or 2 stop bits
- MODBUS stack is more robust against communication errors on the serial line and offers a better timing
- Internal firmware speed increased

◀ BETTER MBUS FRAME DECODING

- Correct handling of
 - negative BCD values
 - plain text VIFs
 - variable length data blocks (byte blocks or ASCII strings)
 - Manufacturer specific VIF extensions (e.g. ABB)

BETTER SEARCH ▶

- All settings are saved for next session
- Selection of serial ports is saved for next session
- All new baud rates and serial settings are supported by search function

EASIER INSTALLATION ▶

- New version available on our homepage www.RESI.cc
- With setup software for easier installation

BACKWARD COMPATIBLE ▶

- All old MBUS modules are supported by new software
- All old projects can be loaded and modified for old converters

