2026

EXCHANGE TABLE MODBUS RS485- ETHERNET

MXD Model enclosures - 1 network

Residential Soft R1.01 (1L weight, dn15-25)

Commercial Soft T1.01

(pulse weight according to the meter: weight 1L-> dn 15-40/ weight 5L->dn 50-100



Modbus RS485 NETWORK

Different configuration on request when ordering

Default settings

Number of wires: **2-wire RTU**/ 4-wire RTU

Baud rate:1200 /2400 /4800/ **9600** /19200 /28800/38400

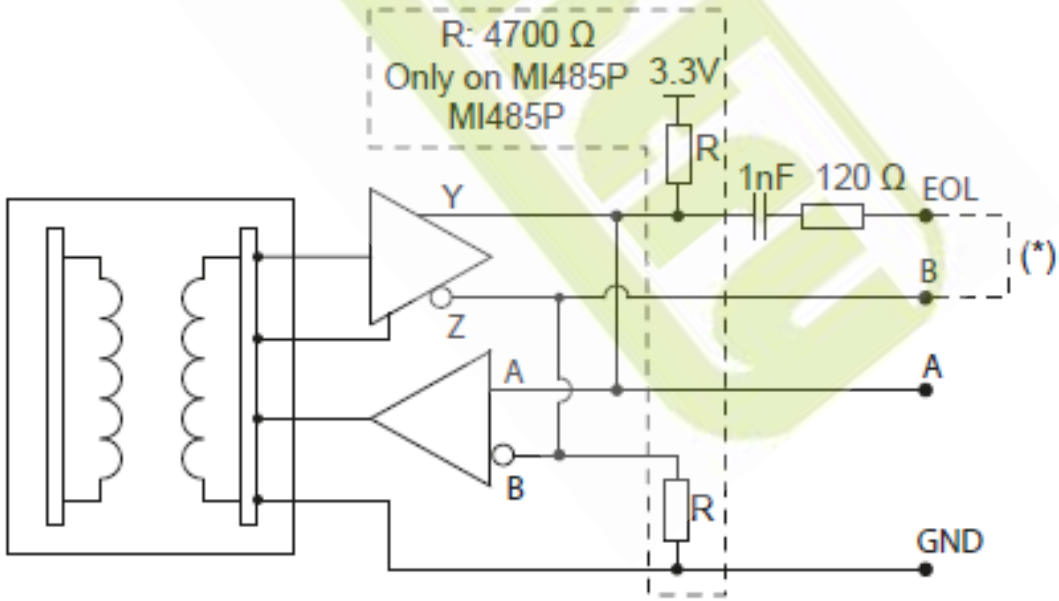
Parity: **None** / Even / Odd

Modbus address: **10**/ no. from 1 to 247

Address can be changed from the controller's Parameters Menu

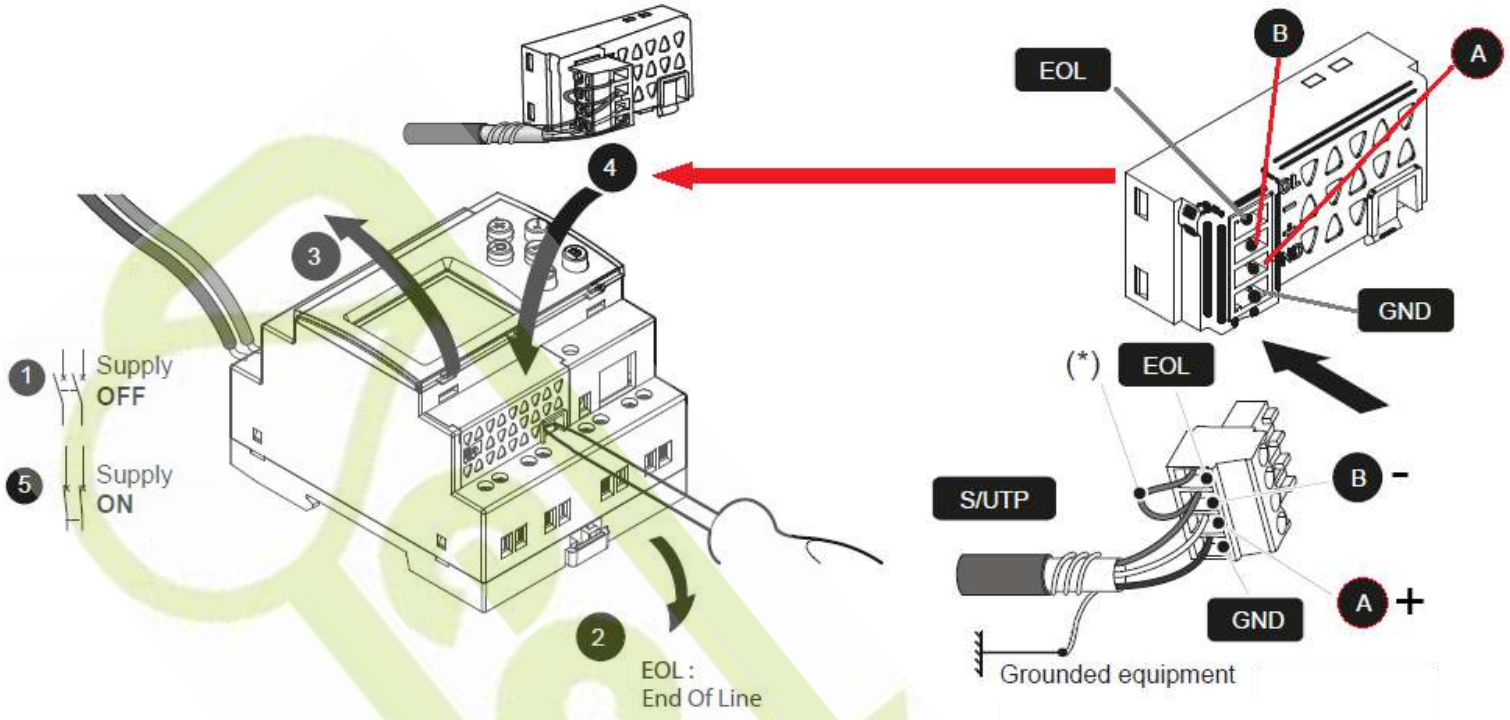
Baud rate, parity, changeable only by program download





(*) Connection between EOL and B on both products at the end of line.

Modbus RS485

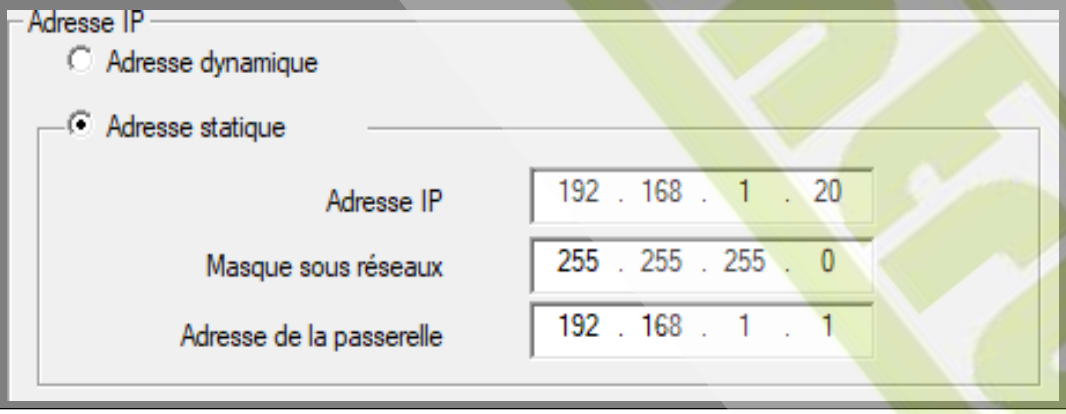


CAUTION ! On separate buildings, if the equipotential earth bonding links are not interconnected, use isolated TES units

ETHERNET NETWORK

to be sent to us before shipping
For each Modbus TPC/IP

- **-IP Address**
- **-Subnet Mask Address**
- **-Gateway Address**



LAN	Green light on = Ethernet connected
	Flashing green = Data exchange

All these parameters can be changed from the controller's Parameters Menu

Values and Statuses read frequently from the BMS/BEMS (Recommended)
Values and Statuses read exceptionally from the BMS/BEMS

Modbus RS485	Modbus TPC/IP			INPUT (Read/write)		
Address 25	Address 25	BIT 1	On command	Monitoring On (On=Opening)	Pulsed	
		BIT 2	Off command	Monitoring Off (Off=Closing)	Pulsed	
		BIT 3	On command	Reset	Pulsed	
		BIT 4	Forced Run command	Forced Run (according to the time set on the controller (from 1 to 4H)	Pulsed	
		BIT 5	On command	LEAK alert THRESHOLD AUTO-SETTING	Pulsed	

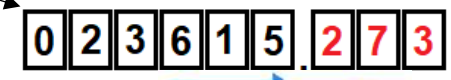
Caution: the commands made on bits 1 to 5 (bit at 1) must last only a few seconds; the bits must imperatively be reset to 0

Modbus RS485	Modbus TPC/IP			OUTPUT (Read)		
Address 30	Address 30	BIT 1	Status	Main Network LEAK ALERT (E1)	0=Off/1=On	
		BIT 2	Status	Temperature ALERT	0=Off/1=On	
		BIT 3	Status	MAIN SAFETY SHUT-OFF	0=Off/1=On	
		BIT 4	Status	E1 TRANSMITTER ALERT	0=Off/1=On	
		BIT 5	Status	Daily CONSUMPTION ALARM	0=Off/1=On	
		BIT 6	Status	FORCED RUN	0=Off/1=On	
		BIT 7	Status	MONITORING ON (valve open)	0=Off/1=On	
		BIT 8	Status	MONITORING OFF (valve closed)	0=Off/1=On	
		BIT 9	Status	FLOOD ALERT (input I2 powered +24vdc)	0=Off/1=On	
		BIT10	Status	Network Closing Authorised on Consumption Alert	0=Off/1=On	
		BIT11	Status	FIRE ALARM (SHUNT/ between +24vdc and input I5 broken)	0=Off/1=On	
		BIT12	Status	FORCED RUN Input (input I4 powered +24vdc)	0=Off/1=On	
		BIT13	Status	LEAK ALERT THRESHOLD AUTO-SETTING	0=Off/1=On	
		BIT14	Status	PIPE BURST ALERT	0=Off/1=On	
		BIT15	Status	TRANSMITTER MONITORING	0=Off/1=On	
		BIT16	Status	WEEKLY TIMER (ON)	0=Off/1=On	

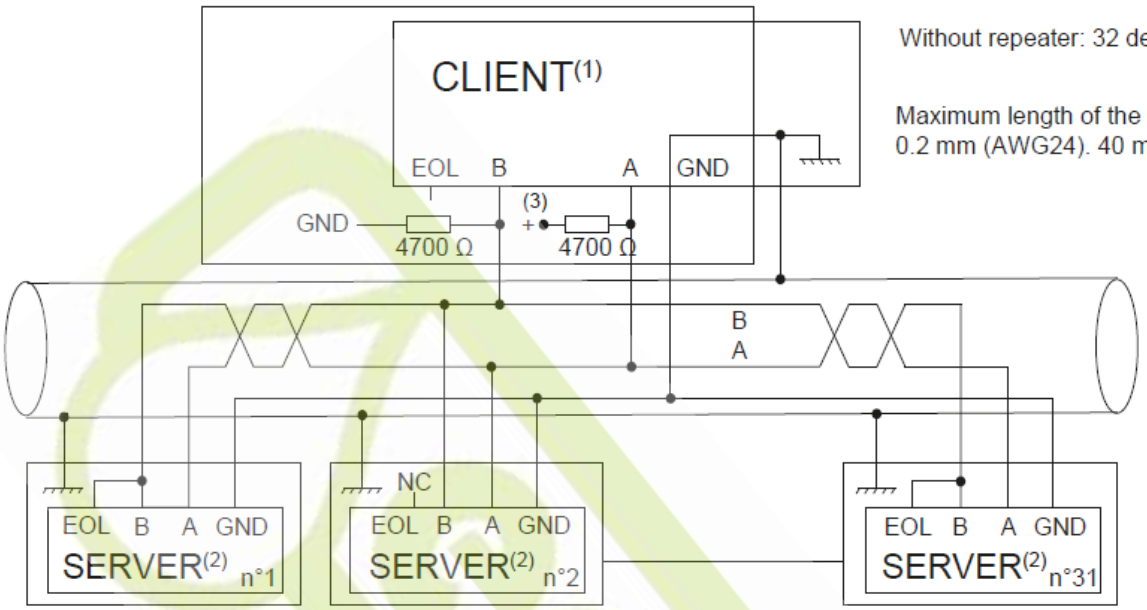
Modbus RS485	Modbus TPC/IP		OUTPUT (Read)	
Address 26	Address 26	Variable	Meter: INDEX Low word (16bits)	
Address 27	Address 27	Variable	Meter: INDEX High word (16bits)	
Address 28	Address 28	Variable	Recorded Leak Flow rate (L/Hour)	
Address 29	Address 29	Variable	Last flow rate passing through	
Address 31	Address 31	Variable	DAY'S CONSUMPTION Low word (16bits)	
Address 32	Address 32	Variable	DAY'S CONSUMPTION High word (16bits)	
Address 33	Address 33	Variable	Temperature °C read on the Probe (Option)	
Modbus RS485	**Modbus TPC/IP**		**Millenium3 Clock (Read/write)**	
Address 55		Variable	second	
Address 56		Variable	Minute	
Address 57		Variable	Hour	
Address 58		Variable	Day of the week	
Address 59		Variable	Day of the month	
Address 60		Variable	Month	
Address 61		Variable	Year	
Address 62		Variable	Time zone	

The meter INDEX is stored on 32 bits , the value is sent split into 2 words of 16 bits
The electronic Index can be changed locally on the enclosure (synchronisation with the meter index)





Modbus RS485



Without repeater: 32 devices maximum

Maximum length of the network: 1000 m with 9600 baud
0.2 mm (AWG24). 40 m maximum deviation

1. Millenium Client + Modbus interface
2. Server or Millenium + Modbus
3. Polarization

ETHERNET NETWORK

