MODBUS RS485- MODBUS TPC/IP EXCHANGE TABLE

2025

M3 model boxes - 1 network

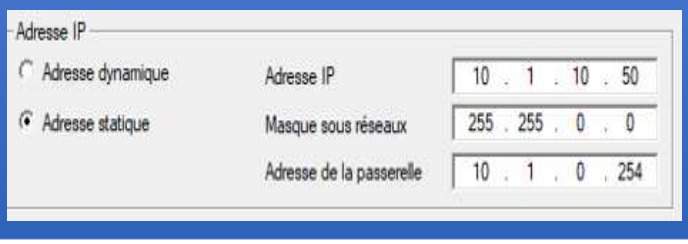
Residential Soft RT9.39/40/41/42 (poids 1L, dn15-25) **Tertiary Soft CT9.39/40/41/42**

(pulse weight depending on the meter: weight 1L-> dn 15-40/ weight 5L->dn 50-100)

Modbus TCP/IP NETWORK

Modbus RS485 NETWORK

-IP Address
-Subnet Mask
-Gateway Address
Please provide us with the address before shippingFor each Modbus TCP/IP

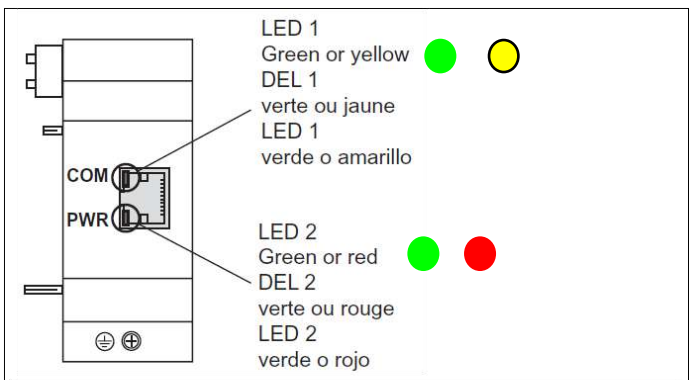


Different configurations available upon request

When ordering

Default settings

Number of wires: 2-wire RTU / 4-wire RTU
Speed:1200/2400/4800/9600/19200/28800/38400
Parity: None / Even / Odd
Modbus address: 1 / number from 1 to 247



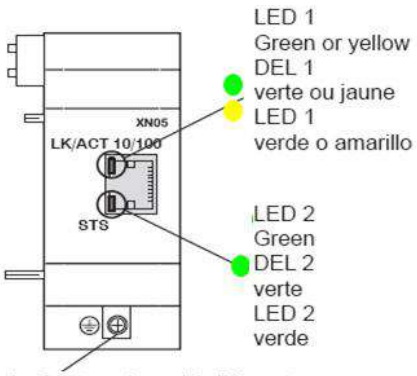
COM (LED 1)

OFF	No network communication
Flashing yellow	Reception in progress (communication on the bus)
Flashing green	Transmission in progress

PWR (LED 2)

OFF	Product not powered
Green	Product powered and programmed
Flashing red	Product powered and not programmed
Red	Internal fault (bit T = 1 on Status)

Transmission display has priority over reception
Led flashing period: 200 ms "ON" and 1000 ms "OFF" (single flash)



La prise de terre sert à la mise à la terre du module Ethernet seulement, elle ne sert pas comme mise à la terre du module Millenium principal.

LK/ACT 10/100 (LED 1)

OFF	No Ethernet connection
ON (Green)	100M Ethernet connection
ON (Green Blinking)	100M Ethernet connection, with active data
ON (Yellow)	10M Ethernet connection
ON (Yellow Blinking)	10M Ethernet connection, with active data

STS (Device Status) (DEL 2)

ON steady	Ethernet extension powered up and ready for communication.
Fast flash	Ethernet communication is being initialized
	IP address duplicated
	IP address is being obtained (during normal operation or before changeover to fallback mode)
	IP address is being obtained after changeover to fallback mode

ecosentry ®

Values and Statuses Frequently Recorded from GTC/GTB
(Recommended)Values and Statuses Exceptionally Recorded from GTC/GTB

XN06 Modbus	XN05 Ethernet			INPUT (Read/Write)		
Adress 16	Adress 12	BIT 1	Command On	Monitoring On (On = Open)	Impulsive	
		BIT 2	Command Off	Monitoring Off (Stop = Close)	Impulsive	
		BIT 3	Command On	Réarmement	Impulsive	
		BIT 4	Forced March Command	Forced March for 2 Hours (Only on Version >= 9.42)	Impulsive	
		BIT 5	Command On	SELF-ADJUSTING LEAK ALERT THRESHOLD	Impulsive	

Caution: commands performed on bits 1 to 5 (bit on 1) must be of a few seconds only, the bits must imperatively be reset to 0

XN06 Modbus	XN05 Ethernet			OUTPUT (Read)		
Adress 24	Adress 20	BIT 1	State	1° Main Network LEAK ALERT (E1)	0=Off/1=On	
		BIT 2	State	TIMER entry	0=Off/1=On	
		BIT 3	State	GENERAL SECURITY CUTOUT	0=Off/1=On	
		BIT 4	State	E1 TRANSMITTER ALERT	0=Off/1=On	
		BIT 5	State	Daily Consumption Alarm/Cut-off	0=Off/1=On	
		BIT 6	State	FORCED MARCH	0=Off/1=On	
		BIT 7	State	MONITORING ON (valve open)	0=Off/1=On	
		BIT 8	State	MONITORING OFF (valve closed)	0=Off/1=On	
		BIT 9	State	FLOOD ALERT (I2 input powered +24VDC)	0=Off/1=On	
		BIT10	State	Network Closure Authorized on Consumption Alert	0=Off/1=On	
		BIT11	State	FIRE ALARM (SHUNT/ between +24VDC and ID input broken)	0=Off/1=On	
		BIT12	State	STOP Monitoring Input (IC input powered by +24VDC)	0=Off/1=On	
		BIT13	State	SELF-SETTING LEAK ALERT THRESHOLDS	0=Off/1=On	
		BIT14	State	Water Pipe Break ALERT	0=Off/1=On	
		BIT15	State	TRANSMITTER MONITORING	0=Off/1=On	
		BIT16	State	Network Closure Authorized on Transmitter Alert	0=Off/1=On	

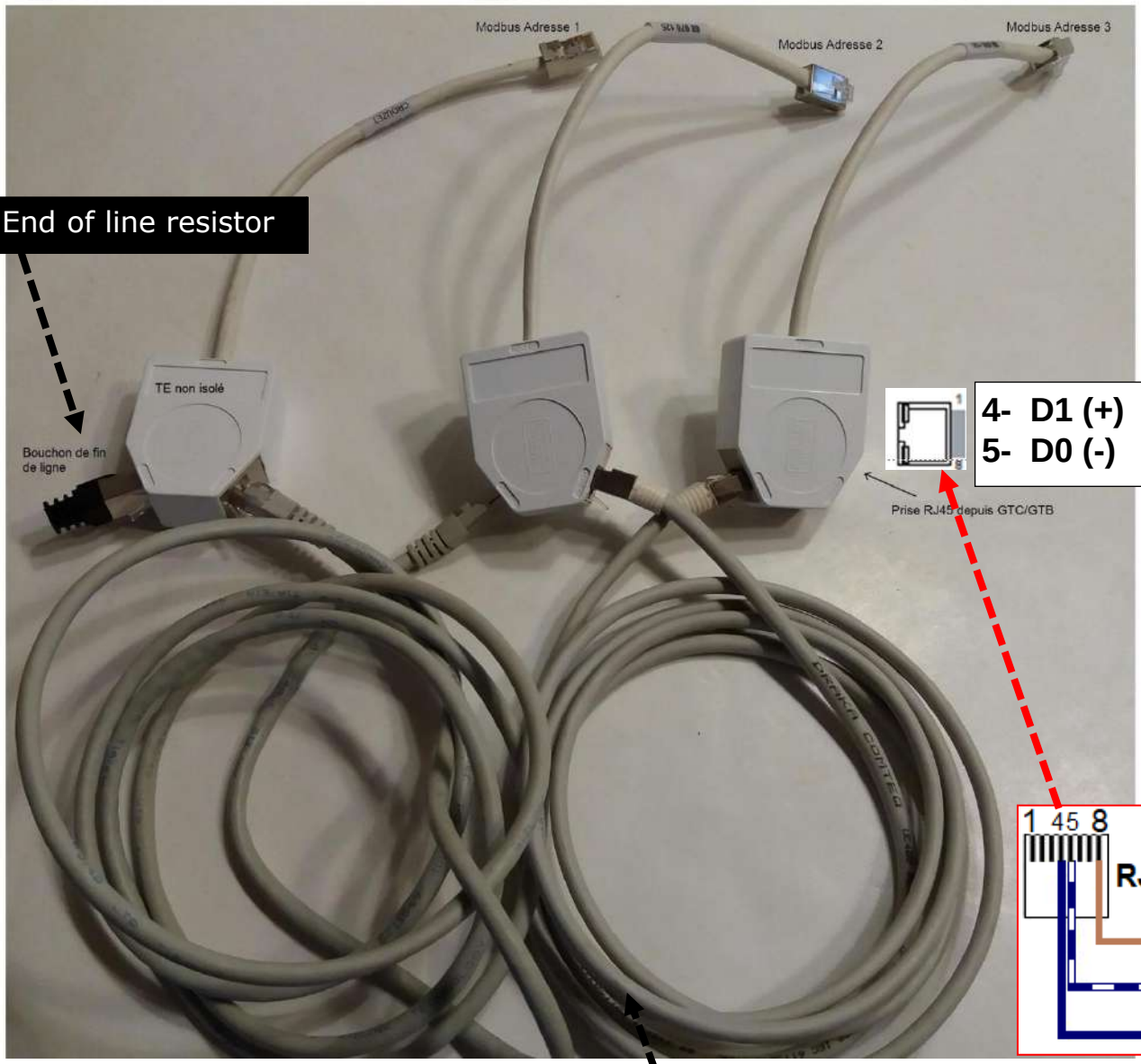
XN06 Modbus	XN05 Ethernet		OUTPUT (Read)	
Adress 25	Adress 21	Variable	LEAKAGE Rate (L/Hour) Recorded	
Adress 26	Adress 22	Variable	Last flow rate (L/hour) on the main network (E1)	
Adress 27	Adress 23	Variable	Minimum flow rate recorded (L/Hour) since 0:00 (E1)	
Adress 28	Adress 24	Variable	INDEX Liters	
Adress 29	Adress 25	Variable	Setting the Minimum LEAK Flow Rate detected (L/H)	
Adress 30	Adress 26	Variable	INDEX m3	
Adress 31	Adress 27	Variable	INDEX thousands of m3	
XN06 Modbus	XN05 Ethernet		Millenium3 Clock (Read/Write)	
Adress 36	Adress 32 Bit 8-15	Variable	seconds	
Adress 37	Adress 33 Bit 1-7	Variable	Minutes	
Adress 38	Adress 33 Bit 8-15	Variable	Hours	
Adress 39	Adress 32 Bit 1-7	Variable	Day of the week	
Adress 40	Adress 34 Bit 1-7	Variable	Day of the month	
Adress 41	Adress 34 Bit 8-15	Variable	Month	
Adress 42	Adress 35 Bit 1-7	Variable	Year	
Adress 43	Adress 35 Bit 8-15	Variable	Century	

XN06 Modbus RS485: (address value 28)= liters
(address value 30)= m3
(address value 31)= thousands m3
Value in M3 of the index= (Adr.31 x1 000 + Adr.30) , Adr.28

XN05 Ethernet: (address value 24)= litres
(address value 26)= m3
(address value 27)= milliers m3
Value in M3 of the index = (Adr.27 x1 000 + Adr.26) , Adr.24

0 2 3 6 1 5 , 2 7 3

Modbus RS485 NETWORK

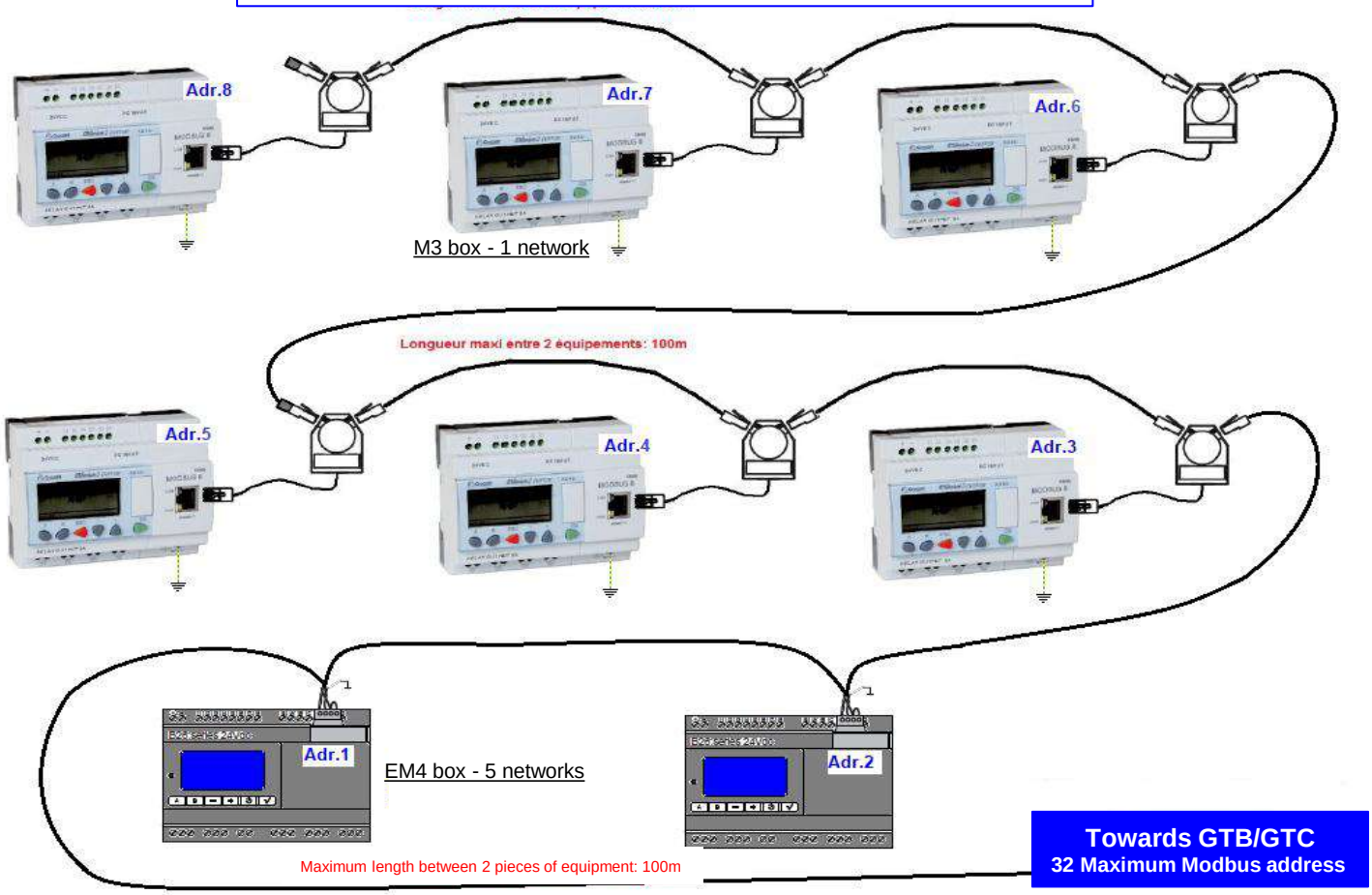


4-pair Cat5/6 network cablefrom GTC/GTB

CAUTION!
On separate buildings, if the equipotential earth connections are not interconnected, use isolated TES.

4-pair Cat5/6 network cablesTo be connected between the branch TEs

Network length less than 1000m



Modbus TCP/IP NETWORK