

- **RESIDENTIAL MODELS** (Apartments, houses, villas, etc.)
- **COMMERCIAL/INDUSTRIAL MODELS** (Offices, Warehouses, Buildings, Industry, etc.)

2 Models: LOCAL (Modbus RS485 Option) and ETHERNET

FEATURES

LEAK MONITORING on 1 to 5 water networks

Leak flow rate monitoring from 10 L/h (DN15-40), 25 L/h (DN50-80), 40 L/h (DN100)

- Connection of 5 water meters
- Connection of 5 motorized valves
- Connection of 1 to 5 Timers (options) for automatic network opening/closing at programmed times and days (52 programs / 7 days)
- Connection of 1 to 4 flood sensors (options) (networks 1 to 4)

BUZZER high-power integrated
Integrated red LED alert indicator

PIPE BURST DETECTION, rapid shut-off (R1 to R5)

DAILY CONSUMPTION MONITORING

For each network (R1 to R5)
Adjustable alert shut-off thresholds

PULSE EMITTER MONITORING (R1 to R5)

Shut-off on Emitter Alert (enable/disable)
Adjustable parameters

AUTOMATIC LEAK THRESHOLD ADJUSTMENT (adapts to consumption on each network R1 to R5)

CONNECTIONS

5 PULSE EMITTER INPUTS

4 FLOOD SENSOR INPUTS

1 FIRE ALARM INPUT - opens all 5 water networks instantly in case of alarm.

5 REMOTE BUTTON INPUTS ON/OFF/Reset configurable as **TIMER** inputs

1 BYPASS INPUT (disables monitoring for all 5 networks)

5 VALVE OUTPUTS (Open / Close)

1 BUZZER OUTPUT 24Vdc, 1 SIREN OUTPUT 24Vdc

1 REVERSING DRY CONTACT OUTPUT FAULT RELAY

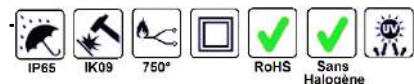
OPTIONS: Bluetooth smartphone connection, etc.

- MODBUS RS 485
- Remote 24Vdc 100dB siren, remote alert indicator
- Telephone transmitter
- Gateway (SMS transmission)
- Electronic clock (automatic open/close) Bluetooth KEY (time programming via smartphone)
- Flood sensors (rapid shut-off in case of flooding on a network)

COMPOSITION

1 Polycarbonate enclosure dimensions

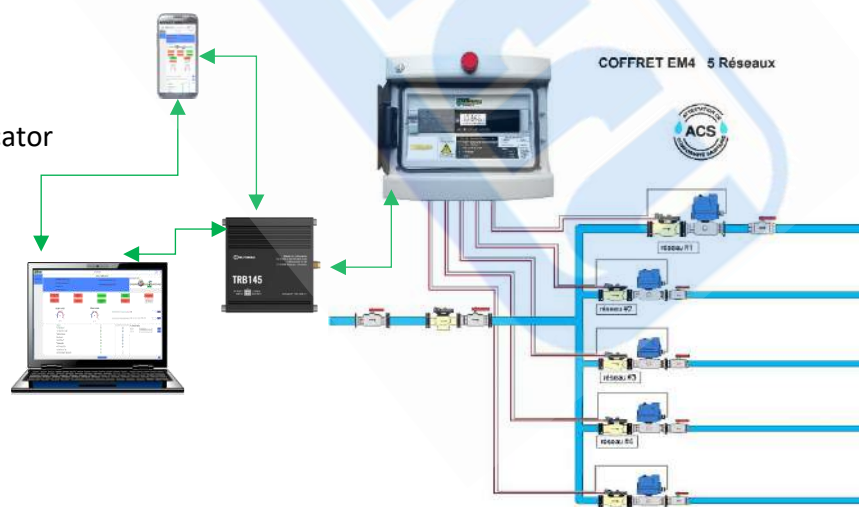
314x263x143mm



- Circuit breaker
- Custom 24Vdc PLC EM4
- 100VA 24Vdc Power supply + Buzzer + red indicator
- Terminal block
- Water meter DN15 to DN150



EASY INSTALLATION



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1 to 5 water networks COMMERCIAL-COLLECTIVE (Option: Modbus RS485)



COMMERCIAL	VERSION EM4 CT6.2 LOCAL
COMMERCIAL	VERSION EM4 CT6.2 ETHERNET

- ② During AUTO-ADJUSTMENT, leak thresholds (max volume across different flow rate levels) are automatically set to the maximum observed volumes, These thresholds are increased by 80%.
- ③ The burst flow rate is set manually according to the meter size (DN)

SPECIFICATIONS	EM4 CT6.2 LOCAL	EM4 CT6.2 ETHERNET
① = Local setting and from BMS/BAS (with Modbus or Ethernet option)		
Polycarbonate enclosure 314x263x143mm + watertight door IP65	YES	YES
Circuit breaker	YES	YES
LCD screen backlight 4 lines of 18 characters	YES	YES
Power consumption screen ON / screen OFF	4w / 0.3w	4w / 0.3w
Integrated buzzer (triggered on Alert)	YES	YES
Password 1 / COMMANDS access (4 changeable digits)	YES	YES
Password 2 / SETTINGS access (4 changeable digits)	YES	YES
Backup on mains power failure (10-year data memory)	YES	YES
Leak flow rate monitoring from (L/h): R1 to R5	10 (dn15-40) 25 (dn50-80) 40 (dn100)	10 (dn15-40) 25 (dn50-80) 40 (dn100)
LEAK detected -> 1st Alert: R1 to R5	YES	YES
Time before SHUT-OFF -> 2nd Alert: R1 to R5 – SHUT-OFF (deactivatable)	60 sec (adjustable)	60 sec (adjustable)
Detection delay at activation: R1 to R5	180 sec (adjustable)	180 sec (adjustable)
Minimum leak detection flow rate (adjustable): R1 to R5	YES	YES
Flood detection (flood sensor option): R1 to R4	YES	YES
Pipe burst detection (rapid shut-off): R1 to R5	YES	YES
AUTO-ADJUSTMENT COMMAND for leak thresholds: R1 to R5 ②	YES ①	YES ①
Auto-adjustment duration, adjustable: R1 to R5	YES	YES
MANUAL COMMAND for burst flow rate: R1 to R5 ③	YES	YES
TIMER: Automatic opening/closing of networks R1 to R5 (option)	YES	YES
ON/OFF COMMAND (open/close): R1 to R5	YES ①	YES ①
RESET COMMAND (open): R1 to R5	YES ①	YES ①
FORCED RUN COMMAND (4h), adjustable 1 to 4h: R1 to R5	YES	YES
Fault Acknowledgement (buzzer off)	YES	YES
Daily consumption monitoring: R1 to R5	YES	YES
Manual setting of consumption alert threshold: R1 to R5	YES	YES
Shut-off on Consumption Alert (on/off setting): R1 to R5	YES	YES
Pulse emitter monitoring (on/off setting): R1 to R5	YES	YES
Max duration without pulses (96h), setting from 1 to 9999h: R1 to R5	YES	YES
Shut-off on Emitter Alert (on/off setting): R1 to R5	YES	YES
Shut-off device selection: R1 to R5 (0=no device: 1=solenoid valve or motorized valve)	YES	YES

LCD SCREEN DISPLAYS ①=Value/status forwarding to BMS/BAS (with Modbus or Ethernet option)	EM4 CT6.2 LOCAL	EM4 CT6.2 ETHERNET
General Daily Cumulative Consumption (pulse count): R1 to R5	YES	YES
Meter INDEX: R1 to R5	YES ①	YES ①
Minimum recorded flow rate for the day (L/h) (from midnight): R1 to R5	YES ①	YES ①
Flow rate (L/h): R1 to R5	YES ①	YES ①
Recorded leak flow rate (L/h): R1 to R5	YES ①	YES ①
LEAK Alert on main network: R1 to R5	YES ①	YES ①
Pipe burst Alert: R1 to R5	YES ①	YES ①
FLOOD ALERT: R1 to R4 (sensors as options)	YES ①	YES ①
CONSUMPTION Alert: R1 to R5	YES ①	YES ①
General network SHUT-OFF: R1 to R5	YES ①	YES ①
EMITTER Alert: R1 to R5	YES ①	YES ①
FIRE ALARM Alert	YES ①	YES ①
Auto-adjustment of leak thresholds (On/Off status): R1 to R5 (thresholds adapt to pulse weight set in system settings)	YES ①	YES ①
Manual setting of burst flow rate: R1 to R5	YES	YES
System On/Off (valve open/valve closed): R1 to R5	YES ①	YES ①
Forced Run (On/Off status): R1 to R5	YES ①	YES ①
TIMER (On/Off status): R1 to R5 (Timer as option)	YES ①	YES ①
Shut-off on Consumption Alert (on/off status): R1 to R5	YES ①	YES ①
Shut-off on Emitter Alert (on/off status): R1 to R5	YES ①	YES ①
Pulse emitter monitoring (on/off status): R1 to R5	YES ①	YES ①
Date, Time (adjustable)	YES ①	YES ①
Log of the last 8 leaks (flow rates and network numbers)	YES	YES
Software version	YES	YES
Program error / Error number	YES ①	YES ①



INPUT / OUTPUT Connections	EM4 CT6.2 LOCAL	EM4 CT6.2 ETHERNET
5 Emitter Inputs (E1, E2, E3, E4, E5)	YES	YES
5 Inputs - Automatic start/stop at programmed times (Electronic clock 56 programs/7 days not included) OR configurable as 5 remote On/Off/Reset control inputs	YES	YES
1 Input - Monitoring bypass (for all 5 networks)	YES	YES
4 Flood sensor inputs: R1 to R4 (sensors as options)	YES	YES
1 Fire alarm input (loop break)	YES	YES
5 Open/close outputs (motorized valves / solenoid valves)	YES	YES
1 24Vdc output (max 5W) External siren (slaved to buzzer)	YES	YES
1 Output 24VDC (max 5W) Fault indicator relay, transmitter, etc.	YES	YES
2 Outputs 24VDC (max 5W) (External siren, indicator)	YES	YES
MODBUS RS485 AS OPTION	YES	NO
ETHERNET AS OPTION	NO	INCLUS
Bluetooth module, control from smartphone/PC (*only without Modbus)	YES*	YES
BMS / BAS	EM4 CT6.2 LOCAL	EM4 CT6.2 ETHERNET
With BMS/BAS supervision (Modbus or Ethernet)		
Consumption / event archiving from BMS	YES	YES
Display of the status of 5 networks	YES	YES
Commands (R1 to R5): On, Off, Reset, Leak threshold auto-adjustment	YES	YES
Display of Alerts, Leak flow rates	YES	YES
GATEWAY SUPERVISION	EM4 CT6.2 LOCAL	EM4 CT6.2 ETHERNET
With Gateway supervision (Modbus RS485)		
SMS ALERT sending	YES	-
Consumption archiving	YES	-
Display of the status of 5 networks	YES	-
Remote control of Commands (R1 to R5): On, Off, Reset, Leak threshold auto-adjustment	YES	-
Display of Alerts, Leak flow rates	YES	-

Detection enclosure 314x263x143mm

IP65IK09

Translucent door



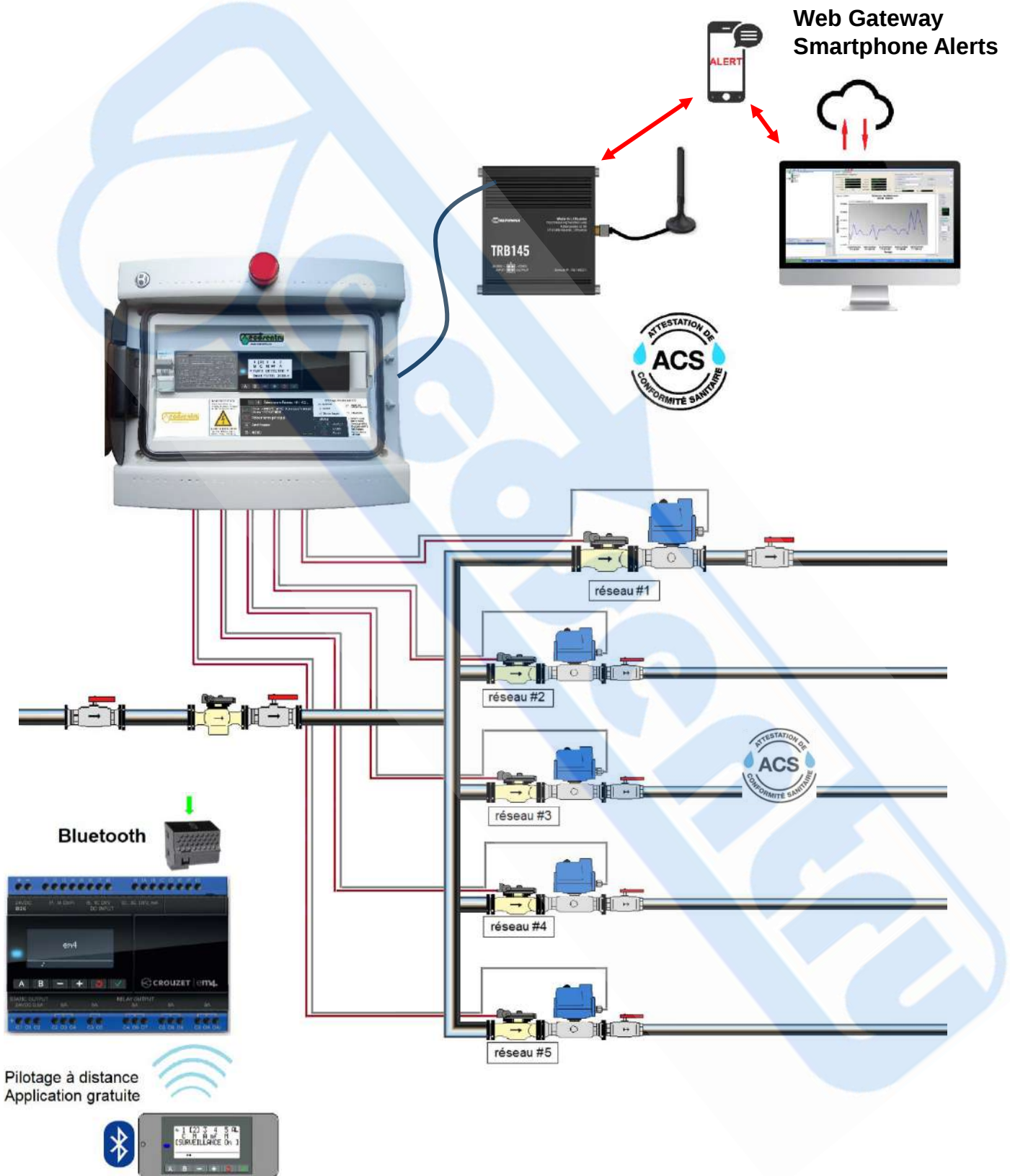
IP65 IK09 - Translucent door (lock as option)

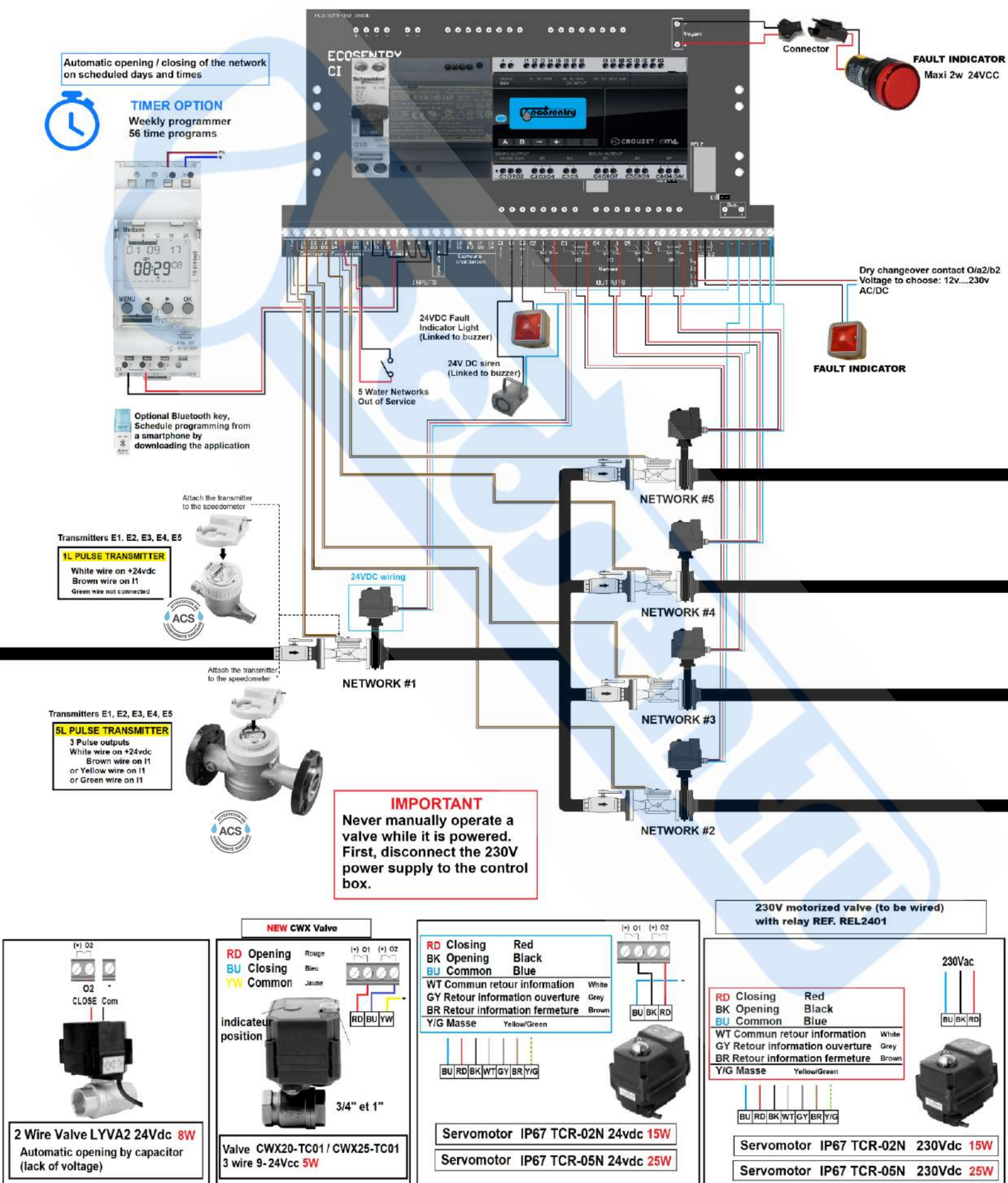
Crouzet Millennium EM4 PLC

Power supply Meanwell 230vac/24vcc 60w

Option: Modbus RS485, Weekly TIMER, Bluetooth







em4 Ethernet & em4 Local

EM4B26-ET EM4B26

General features

Ethernet Modbus TCP/IP (Client/Server): Yes (16 address ranges / 24 words + 16 bits) -

Modbus RTU (Master/Slave): Yes via interface (16 address ranges / 24 words + 16 bits)

Datalog via email or FTP: Yes (24 data items; 68,000 records) -

Event management via email: Yes (24 events) -

Bluetooth Yes via interface

Specific characteristics

Reference: 88 981 133 / 88 981 103

Finish Glossy black

Front panel color: Black RAL 9011

Base color: Blue RAL 5017

Protection degree (acc. IEC/EN 60529): IP 40 on front panel / IP 20 on terminal block

Weight:

EM4B26-ET: Without packaging: 345 g / Including packaging: 395 g

EM4B26: Without packaging: 310 g / Including packaging: 355 g

Dimensions (without packaging): 124.6 x 90 x 60.6 mm

Including packaging: 148 x 103 x 65 mm

EM4B26-ET Programming / operation Via USB, Bluetooth, Ethernet / Via Bluetooth, Ethernet

Ethernet connection Type RJ45, 10/100 Mbit/s, MDI/MDIX -

Addressing Static or dynamic (DHCP server / Auto IP)

Protocols Modbus TCP (client / server), Discovery,

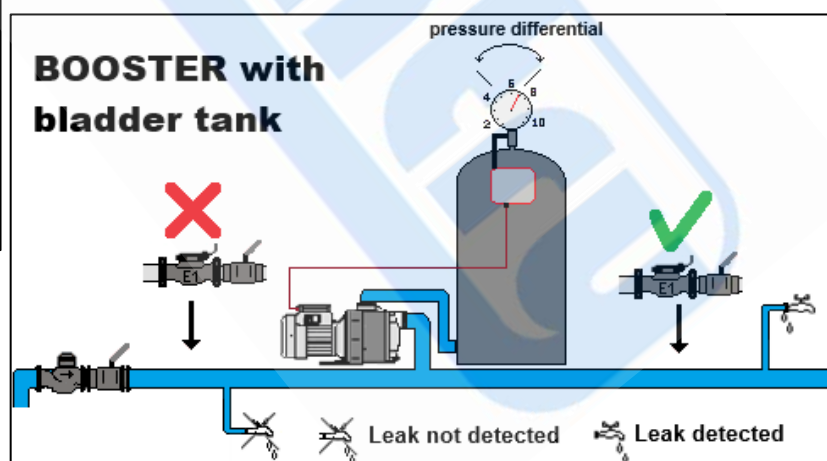
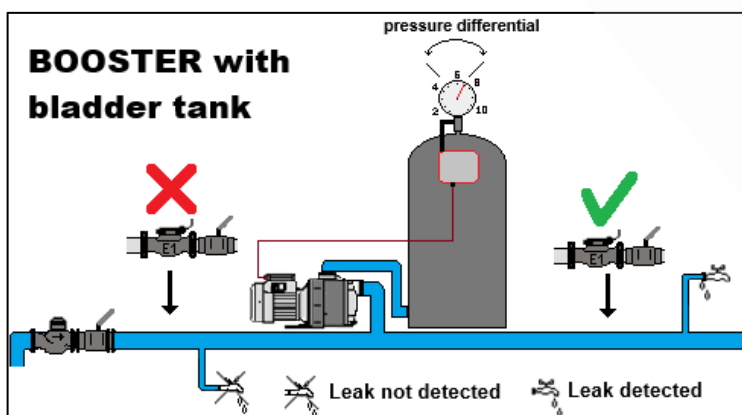
UDP, TCP, FTP, SMTP (SSL/TLS), Workshop

communication via Ethernet (SSL/TLS)

Network length Maximum length between 2 devices: 100 m

Ethernet grounding: Yes, refer to the service instruction provided with the product

EM4B26 Programming / operation Via USB, Bluetooth / Via Bluetooth



WARNING

If booster pumps with expansion vessels are installed on the network, do NOT install main emitter E1 upstream of them.

The high/low pressure differential of the booster pumps should be set as narrow as possible to avoid a leak flow rate drop at low pressure.

Leaks occurring before main emitter E1 **E1** cannot be detected.

General specifications

Product certifications CE, cULus Listed

Low Voltage Directive compliance (acc. 2014/35/EU)

IEC/EN 61131-2 (Open equipment)

EMC Directive compliance (acc. 2014/30/EU)

IEC/EN 61000-6-1 (Residential, commercial and light industry)

IEC/EN 61000-6-2 (Industrial)

IEC/EN 61000-6-3 (Residential, commercial and light industry)

IEC/EN 61000-6-4 (Industrial)

Power supply grounding: None

Overvoltage category 3 acc. IEC/EN 60664-1

Pollution degree: 2 acc. IEC/EN 61131-2

Maximum operating altitude: Operation 2000 m / Transport 3000 m

Mechanical endurance - Vibration immunity: IEC/EN 60068-2-6, test Fc

Shock immunity: IEC/EN 60068-2-27, test Ea

Electrostatic discharge withstand - ESD immunity IEC/EN 61000-4-2, level 3

HF interference withstand (immunity)

Radiated electrostatic field immunity IEC/EN 61000-4-3, level 3

Fast transient/burst immunity IEC/EN 61000-4-4, level 3

Surge immunity IEC/EN 61000-4-5

Common mode radio frequency IEC/EN 61000-4-6, level 3

Conducted and radiated emissions (acc. EN 55022/11 group 1) Class B

Operating temperature: -20 → +60°C (+40°C in unventilated enclosure)

Storage temperature -40 → +80 °C

Relative humidity 95% max. (no condensation or dripping)

Screw terminal wiring capacity - Flexible wire with ferrule: 1 conductor: 0.2 to 2.5 mm², AWG 24-14

2 conductors: 0.2 to 0.75 mm², AWG 24-18

Rigid wire: 1 conductor: 0.2 to 2.5 mm², AWG 24-14

2 conductors: 0.2 to 0.75 mm², AWG 24-18

Tightening torque: 0.5 N.m (tighten with 3.5 mm screwdriver) / Strip length: 6 mm

Material Lexan, UL94V0

Environment: Reach, RoHS, halogen-free 1272/2008/EC

Processing characteristics

LCD display: 4-line 18-character display, white characters on black background, reverse video function

Programming method: FBD (Function Block Diagram), including SFC (Sequential Function Chart) (Grafcet)

Program size Function blocks: 1000 typical blocks / Macro blocks: 127 max (255 blocks per macro)

Program memory Flash

Removable memory N.A

Data memory 2 kbytes

Backup time (in case of power failure):

Program and settings in controller: 10 years / Data memory: 10 years

Data backup / Flash-backed data guaranteed if product is powered for more than 10 seconds

Cycle time: 2 ms* to 90 ms, default value: 10 ms

* : depending on configuration

EM4B26-ET EM4B26

Clock backup autonomy: 10 years at 25°C (lithium battery)

Clock drift: < 12 min/year (at 25°C) / 6 s/month (at 25°C with calibration). Synchronizable via network

Timer block accuracy: 0.5% ± 2 cycle times

Availability at power-up - EM4B26-ET: < 10 s (base only), < 5 s (base + 2 ext. + 1 RS485 interface)

EM4B26: < 3 s (base only), < 1.5 s (base + 2 ext. + 1 USB/RS485 interface)

Self-test: Firmware integrity check firmware (memory checksum) / Internal power supply stability

Verification of hardware configuration compliance with the application program configuration

Power supply

Operating voltage: 24 VDC (-15%/+20%)

Operating limits: 20.4 to 28.8 VDC

Immunity to micro-interruptions: ≥ 1 ms (repeated 20 times)

Maximum power consumption - EM4B26-ET: 5W @ 24VDC, 6.5W @ 28.8VDC, -0.3W backlight off

1.5W @ 24VDC (I/O + backlight) = 0

EM4B26: 4W @ 24VDC, 5.3W @ 28.8V, -0.3W backlight off

Polarity reversal protection Yes

Power supply monitoring: Yes, value available via "FB Status" application 1/10V, 5%

Inputs

24 VDC digital and fast digital inputs - 4 inputs I1 to I4

Input used as digital

Input voltage: 24 VDC (-15%/+20%)

Input current: 1.8 mA @ 20.4 V

2.1 mA @ 24 V

2.5 mA @ 28.8 V

Input impedance: 11.6 kΩ

Turn-on voltage at logic state 1: 15 VDC

Turn-on current at logic state 1: 1.3 mA

Release voltage at logic state 0: 10 VDC

Release current at logic state 0: 0.8 mA

Response time: 1 to 2 cycle times

Sensor type Contact, PNP 3-wire

Compliance: IEC/EN 61131-2 Type 1

Input type: Resistive

Isolation between supply and inputs: None

Isolation between inputs: None

Polarity reversal protection Yes

Status indicator: On LCD screen

Cable length = 100 m

Input used as fast digital

Maximum counting frequency - 3-channel encoder (I1, I2, I3): 20 kHz*

2 independent counters (Cumul,IND,DIR): 2-channel 40 kHz*, 4-channel 20 kHz*,

2 independent counters (PH,PH2): 2/4-channel 20 kHz*

4 independent counters (Up/Down): 1-channel 60 kHz*, 2-channel 40 kHz*, >2-channel 20 kHz*

* cycle time = 10 ms, ton/toff = 50%±5%, level 0<2V, level 1>20.4V

Other functions: 4 stopwatches (I1, I2, I3, I4) / 4 tachometers (I1, I2, I3, I4)

Cable length: ≤ 3 m with twisted shielded cable

24 VDC digital and 12-bit/28.8V potentiometric analog inputs - 8 inputs I5 to IC**Input used as digital**

Input voltage: 24 VDC (-15%/+20%)

Input current: 1.8 mA @ 20.4 V / 2.1 mA @ 24 V / 2.5 mA @ 28.8 V

Input impedance: 11.6 k Ω

Turn-on voltage at logic state 1: 11 V

Turn-on current at logic state 1: 1 mA

Release voltage at logic state 0: 9 V

Release current at logic state 0: 0.7 mA

Response time: 1 to 2 cycle times

Sensor type Contact or PNP 3-wire

Compliance: IEC/EN 61131-2 Type 1

Input type: Resistive

Isolation between supply and inputs: None

Isolation between inputs: None

Polarity reversal protection Yes

Status indicator: On LCD screen

Cable length = 100 m

Input used as analog

Measurement range: 0→10 V, 0→supply voltage, or voltmeter

Input impedance: 11.6 k Ω

Input voltage: 28.8 VDC max.

Input type: Common mode

Resolution: 12-bit at max input voltage (10-bit at 10V) / 12-bit at max input voltage (10.5-bit at 10V)

LSB value 7,03 mV

Conversion time: Controller cycle time

Max error in 0→10V mode: $\pm 1.1\%$ of full scale @ 25°C / $\pm 1.6\%$ of full scale @ 55°C

Max error in 0→supply voltage mode: $\pm 2\%$ of full scale @ 25°C

$\pm 3\%$ of full scale @ 55°C

Repeatability at 55°C $\pm 0,5 \%$

Voltmeter: 0 to 30.5 V, 5%

Analog channel and supply isolation: None

Polarity reversal protection Yes

Potentiometer control: 2.2 k Ω / 0.5 W (recommended) / 10 k Ω max.

Cable length: ≤ 10 m with shielded cable (non-isolated sensor)

24 VDC digital and analog 12-bit/10V & 11-bit/0-20mA inputs - 4 inputs ID to IG**Input used as digital (unpowered state)**

Input voltage: 24 VDC (-15%/+20%)

Input current: 1.5 mA @ 20.4 V / 1.7 mA @ 24 V / 2.1 mA @ 28.8 V

Input impedance: 13.9 k Ω

Turn-on voltage at logic state 1: 11 VDC

Turn-on current at logic state 1: 0.8 mA

Release voltage at logic state 0: 8 VDC

Release current at logic state 0: 0.5 mA

Response time: 1 to 2 cycle times

Sensor type Contact or PNP 3-wire
Compliance: IEC/EN 61131-2 Type 1
Input type: Resistive
Isolation between supply and inputs: None
Isolation between inputs: None
Polarity reversal protection No
Status indicator: On LCD screen
Cable length = 100 m

Input used as analog 0-10 V

Measurement range 0 → 10 V
Input impedance: 13.9 k Ω
Maximum value without destruction: 28.8 Vdc max.
Input type: Common mode
Resolution: 12-bit / 10 V
LSB value 2,45 mV
Conversion time: Controller cycle time
Max error at 25°C: $\pm 0.8\%$ of full scale
Max error at 55°C: $\pm 1.2\%$ of full scale
Repeatability at 55°C $\pm 0,5\%$
Analog channel and supply isolation: None
Polarity reversal protection: Yes for voltages ≤ 10 V
Potentiometer control: 2.2 k Ω / 0.5 W (recommended) / 10 k Ω max.
Cable length: ≤ 10 m with shielded cable (non-isolated sensor)

Input used as analog 0-20 mA

Measurement range: 0 to 20 mA (4 to 20 mA via application)
Input impedance: 245 Ω
Maximum value without destruction: 30 mA max.
Input type: Common mode
Resolution: 11-bit (normalized to 0-2000) / 20 mA
LSB value 10 μ A
Conversion time: Controller cycle time
Max error at 25°C: $\pm 1.2\%$ of full scale
Max error at 55°C: $\pm 1.7\%$ of full scale
Repeatability at 55°C $\pm 0,5\%$
Analog channel and supply isolation: None
Polarity reversal protection Yes
Overvoltage protection: Yes. If input voltage > 7 V, it is automatically switched to 0-10V configuration.
Cable length: ≤ 30 m with shielded cable (non-isolated sensor)

Static digital and PWM outputs - 2 static outputs O1 to O2**Static output as digital**

Switching voltage: 10 → 28.8 Vdc / Nominal voltage: 12/24 Vdc
Nominal current: 0.5 A on resistive load @ 25°C / Maximum switching current: 0.625 A
Non-repetitive overload current: 1 A / Switching current in common: 1 A
Voltage drop: < 1 V at $I = 0.5$ A
Response time: Pick-up = 1 cycle time + 30 μ s typical
Drop-out = 1 cycle time + 40 μ s typical

Static output as PWM

PWM frequency 14.11 Hz; 56.45 Hz; 112.90 Hz; 225.80 Hz; 451.59 Hz; 1758.24 Hz

PWM duty cycle: 0 → 100%, 100 steps

Max PWM error: $\leq 2\%$ (from 10% → 90%)

Status indicator: On LCD screen

Cable length: ≤ 10 m with twisted shielded cable

Distance between power source and outputs: ≤ 30 m

6A relay outputs - 2 outputs O3 to O4

Switching voltage 250 V_a max

Switching current 6 A / Derating : UL : = 45 °C : 4A max

Switching current in common: CEI @ 25°C: 12 A / CEI @ 60°C or UL: 10 A

Mechanical lifetime 5 000 000 (operating cycles)

Electrical durability for 50,000 operations

24 V_{cc} tau = 0 ms : 6 A, tau = 7 ms : 3 A, tau = 15 ms : 1,8 A

Utilization category DC-12: 24 V, 6 A / DC-14: 24 V, 1.8 A

250 V_a cos phi = 1 : 6 A, cos phi = 0,7 : 5 A, cos phi = 0,4 : 2,5 A

Utilization category AC-12: 250 V, 6 A / AC-13: 250 V, 5 A / AC-15: 250 V, 2 A

Minimum switching current: 100 mA (at minimum voltage of 12 V)

Maximum operating rate No-load: 10 Hz

At rated current: 0.1 Hz

Rated impulse withstand voltage: 4 kV acc. IEC/EN 60947-1 and IEC/EN 60664-1

Response time Pick-up = 1 cycle time + 8 ms max

Drop-out = 1 cycle time + 4 ms max

Built-in protections Against short-circuit: None

Against overvoltages and overloads: None

Status indicator: On LCD screen

Cable length = 30 m

8A relay outputs - 6 outputs O5 to O4

Switching voltage 250 V_a max

Switching current: 8 A / Derating: CEI $\geq 55^{\circ}\text{C}$ or UL $\geq 45^{\circ}\text{C}$: 6A max

Switching current in common: CEI @ 25°C: C3,C6: 8A; C4,C5: 16A

CEI @ 60°C or UL: C3,C6: 8A; C4,C5: 10A

Mechanical lifetime 20 000 000 (operating cycles)

Electrical durability for 50,000 operations

24 V_c tau = 0 ms : 8 A, tau = 7 ms : 3 A, tau = 15 ms : 1,5 A

Utilization category DC-12: 24 V, 8 A / DC-14: 24 V, 1.5 A

250 V_a cos phi = 1 : 8 A, cos phi = 0,7 : 4,75 A, cos phi = 0,4 : 3 A

Utilization category AC-12: 250 V, 8 A / AC-13: 250 V, 4.3 A / AC-15: 250 V, 1.5 A

Minimum switching current: 100 mA (at minimum voltage of 12 V)

Maximum operating rate: No-load 10 Hz / At rated current: 0.1 Hz

Rated impulse withstand voltage: 4 kV acc. IEC/EN 60947-1 and IEC/EN 60664-1

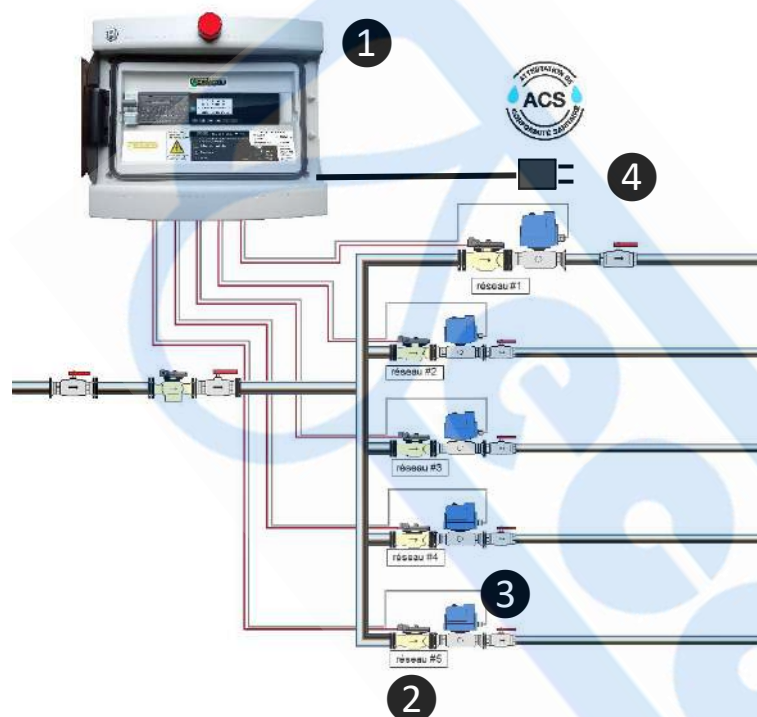
Response time Pick-up = 1 cycle time + 10 ms max / Drop-out = 1 cycle time + 5 ms max

Built-in protections Against short-circuit: None

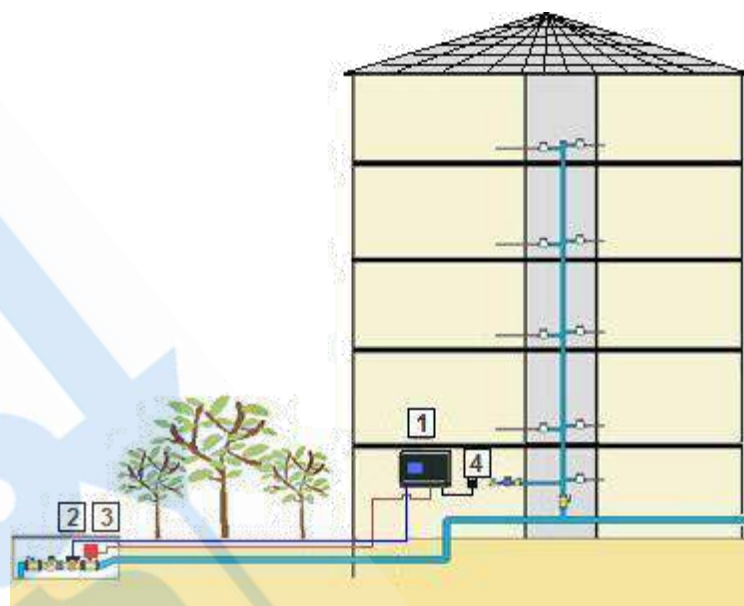
Against overvoltages and overloads: None

Status indicator: On LCD screen

Cable length = 30 m



EASY INSTALLATION



METER SIZE	2	Meter	3	Shut-off
Dn 15		A	J	E
Dn 20		B	J	E
Dn 25		C		F
Dn 32		C		F
Dn 40		C		F
Dn 50 BRIDE		D		G
Dn 65 BRIDE		D		G
Dn 80 BRIDE		D		G
Dn 100 BRIDE		D		G

A		J		LYVA2	2-wire 8W
				CWX-TC01	3-wire 5W
B		E		TCR02N IP67	7-wire 15W Regulated 3W resistance
				TCR05N IP67	7-wire 25W Regulated 3W resistance
C		F		TCR05N IP67	7-wire 25W Regulated 3W resistance
				TCR05N IP67	7-wire 25W Regulated 3W resistance
D		G		TCR05N IP67	7-wire 25W Regulated 3W resistance
				TCR05N IP67	7-wire 25W Regulated 3W resistance