# 2026 Water circuit breakers -ENCLOSURE "EM4" - 3 to 5 Water Networks

**- 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**

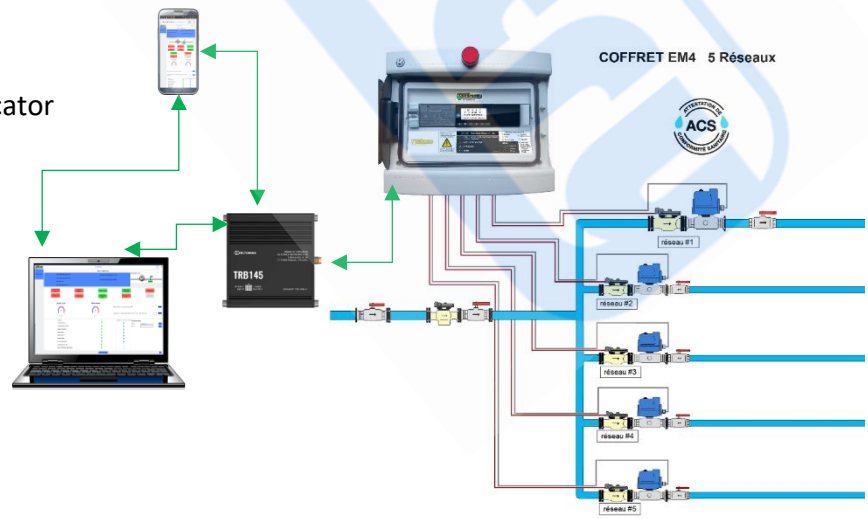
IP65 IK09 750° RoHS Sans Halogène

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



## EASY INSTALLATION

**NETWORK 1 can be configured for a General network setup. The leakage threshold multiplier for this network is adjustable.**




**ECOSENTRY - 13, rue du Terral- ZAE l'Embosque - 34770 Gigean**
**+33(0)4 67 51 03 06 / +33(0)6 647069 97**
**www.ecosentry.fr / contact@ecosentry.info**

# Technical specifications for water leak detectors

**EM4 (3 to 5 Networks) 2026**

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

| | |
|---|---|
| COMMERCIAL | VERSION EM4 CT6.4 LOCAL |
| COMMERCIAL | VERSION EM4 CT6.4 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<br>① =Local setting and from BMS/BAS (with Modbus or Ethernet option) | EM4 CT6.4 LOCAL | EM4 CT6.4 ETHERNET |
|---|---|---|
| Polycarbonate enclosure 314x263x143mm<br>+ 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)<br>25 (dn50-80)<br>40 (dn100) | 10 (dn15-40)<br>25 (dn50-80)<br>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 |

**Technical specifications for water leak detectors**

**EM4 (3 to 5 Networks) 2026**

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

| | EM4 CT6.4 LOCAL | EM4 CT6.4 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)<br>Network 1 can be configured as a general network, and the threshold increase factor is adjustable. | 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, network number, and trigger times) | YES | YES |
| Software version | YES | YES |
| Program error / Error number | YES 1 | YES 1 |

**Technical specifications for water leak detectors**

**EM4 (3 to 5 Networks) 2026**

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

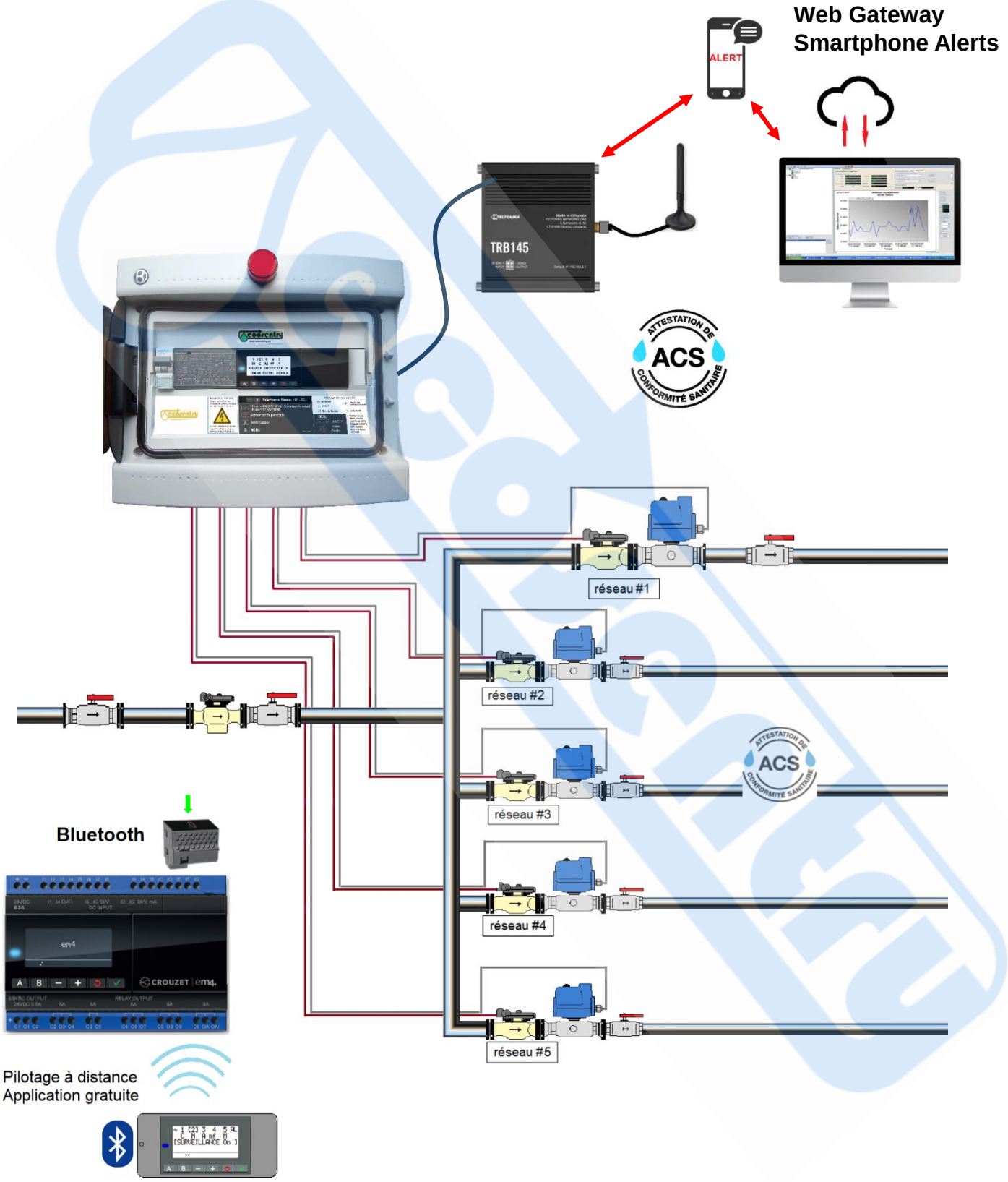
| INPUT / OUTPUT Connections | EM4 CT6.4 LOCAL | EM4 CT6.4 ETHERNET |
|---|---|---|
| 5 Emitter Inputs (E1, E2, E3, E4, E5) | YES | YES |
| 5 Inputs - Automatic start/stop at programmed times<br>(Electronic clock 56 programs/7 days not included)<br>OR configurable as 5 remote On/Off/Reset control inputs | 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 CT6.4 LOCAL | EM4 CT6.4 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 CT6.4 LOCAL | EM4 CT6.4 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**



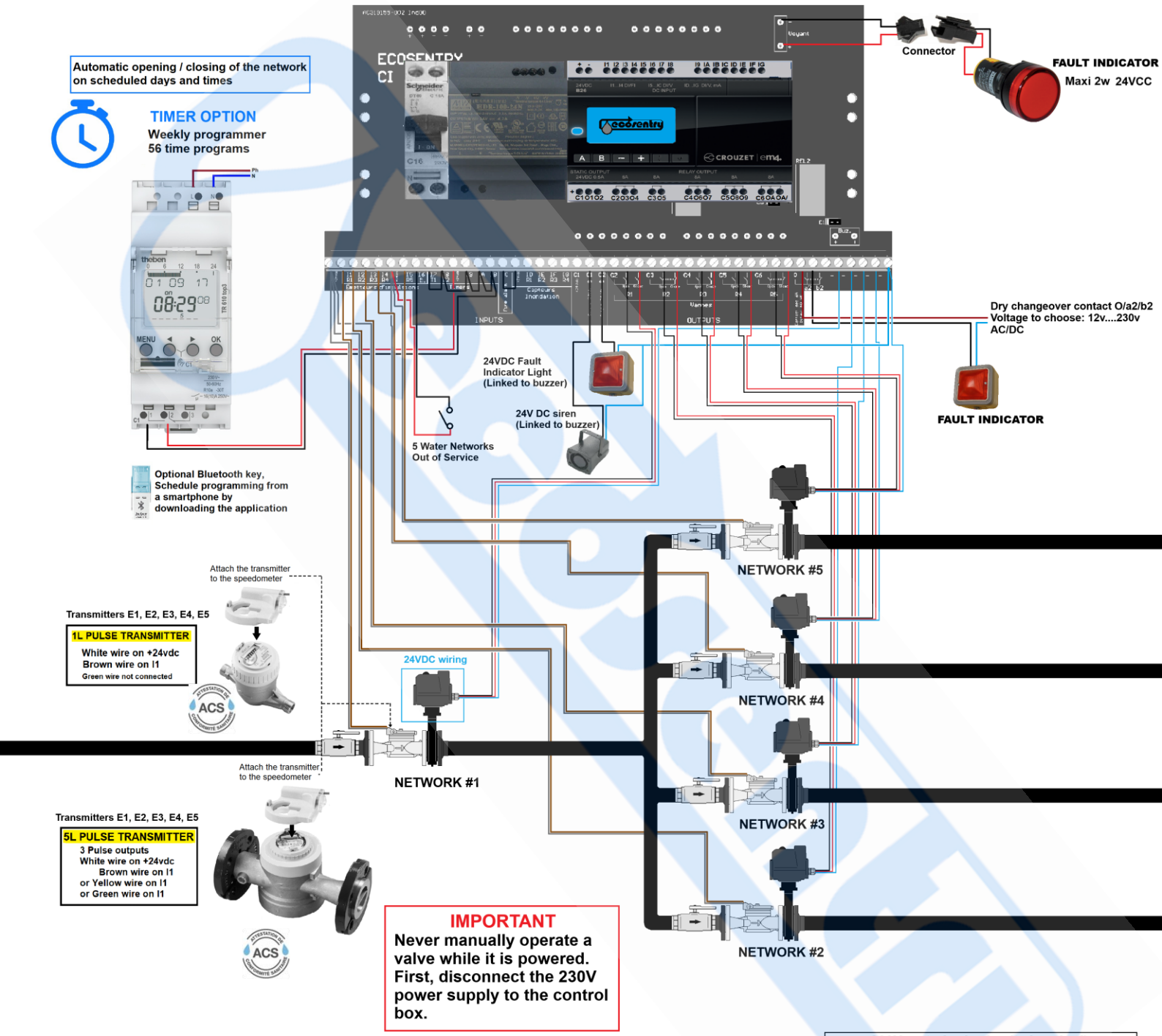



Water leak detectors meeting the requirements of the **label HQE** et **label BREEAM**

# Technical specifications for water leak detectors

**EM4 (3 to 5 Networks) 2026**

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

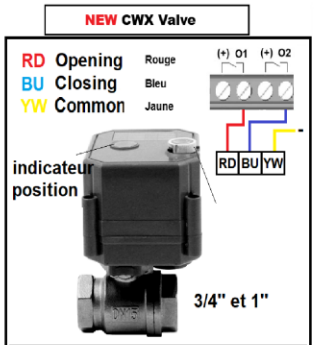




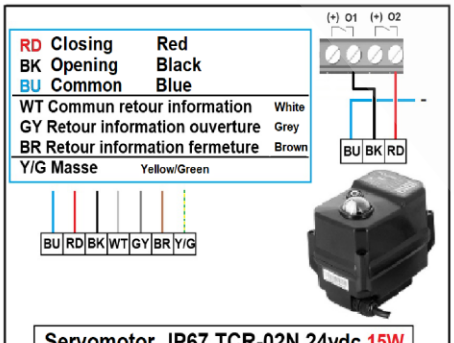


2 Wire Valve LYVA2 24Vdc 8W
Automatic opening by capacitor (lack of voltage)

**NEW CWX Valve**

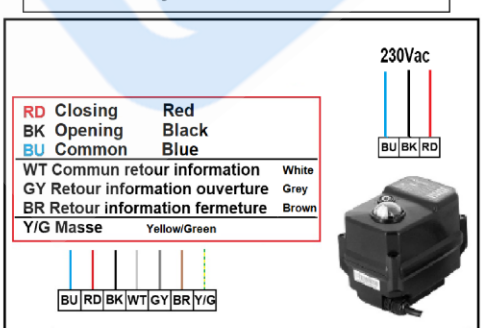



Valve CWX20-TC01 / CWX25-TC01
3 wire 9-24Vcc 5W




Servomotor IP67 TCR-02N 24vdc 15W
Servomotor IP67 TCR-05N 24vdc 25W

**230V motorized valve (to be wired) with relay REF. REL2401**




Servomotor IP67 TCR-02N 230Vdc 15W
Servomotor IP67 TCR-05N 230Vdc 25W

# em4 Ethernet & em4 Local

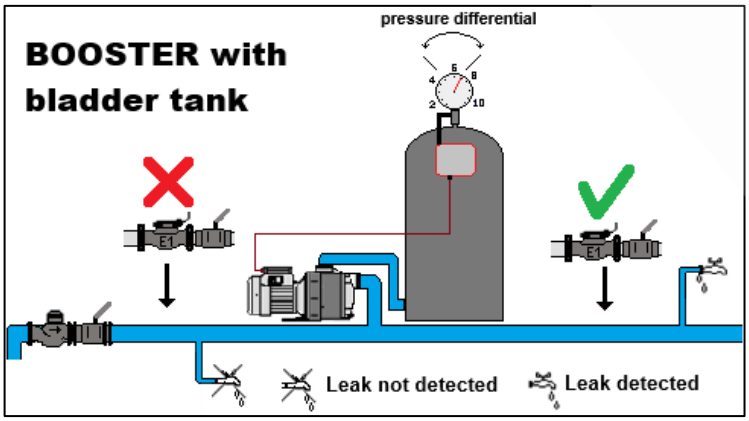
## EM4B26-ET EM4B26

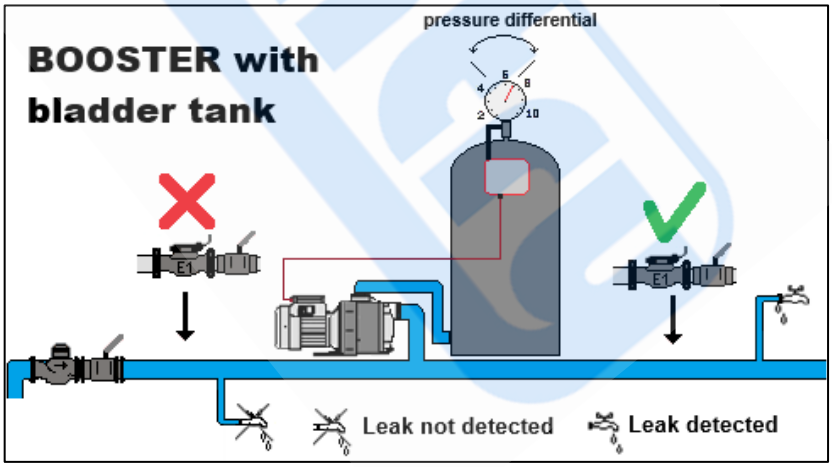
### General features

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**

Ef 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 kΩ
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 kΩ
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: ±1.1% of full scale @ 25°C / ±1.6% of full scale @ 55°C
Max error in 0→supply voltage mode: ±2% of full scale @ 25°C
±3% of full scale @ 55°C
Repeatability at 55°C ± 0,5 %
Voltmeter: 0 to 30.5 V, 5%
Analog channel and supply isolation: None
Polarity reversal protection Yes
Potentiometer control: 2.2 kΩ / 0.5 W (recommended) / 10 kΩ 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 kΩ
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 kΩ
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: ±0.8% of full scale
Max error at 55°C: ±1.2% of full scale
Repeatability at 55°C ± 0,5 %
Analog channel and supply isolation: None
Polarity reversal protection: Yes for voltages ≤ 10 V
Potentiometer control: 2.2 kΩ / 0.5 W (recommended) / 10 kΩ 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 µA
Conversion time: Controller cycle time
Max error at 25°C: ±1.2% of full scale
Max error at 55°C: ±1.7% of full scale
Repeatability at 55°C ± 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**

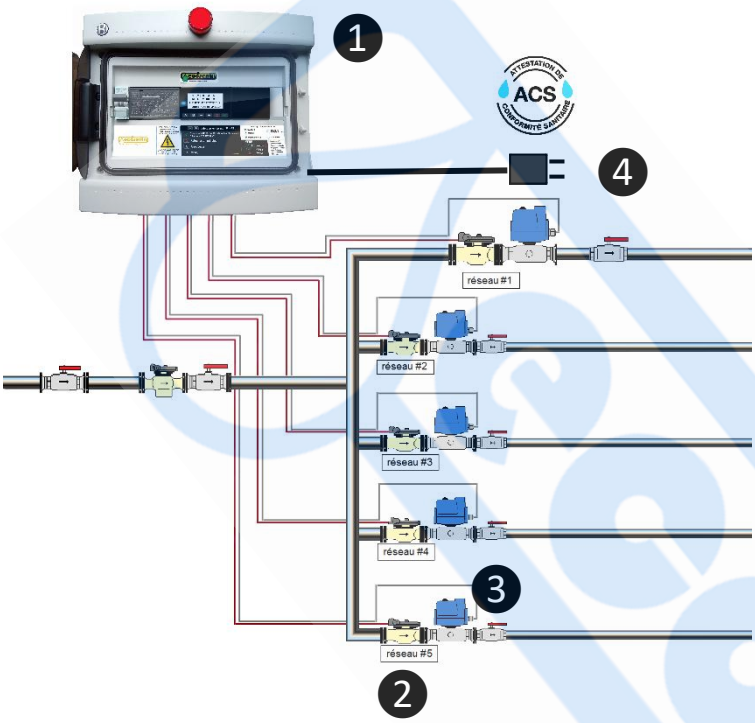
Switching voltage: 10 → 28.8 Vdc / Nominal voltage: 12/24 Vdc
Nominal current: 0.5 A on resistive load @ 25°C / Maximum switching current: 0.625 A
Non-repetitive overload current: 1 A / Switching current in common: 1 A
Voltage drop: < 1 V at I = 0.5 A
Response time: Pick-up = 1 cycle time + 30 µs typical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

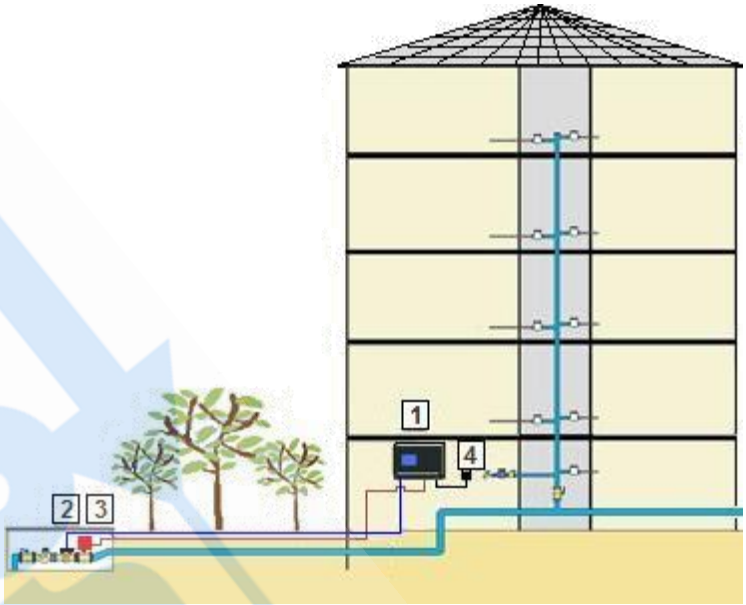
**6A relay outputs - 2 outputs O3 to O4**
Switching voltage 250 Va max
Switching current 6 A / Derating : UL : = 45 °C : 4A max
Switching current in common: CEI @ 25°C: 12 A / CEI @ 60°C or UL: 10 A
Mechanical lifetime 5 000 000 (operating cycles)
Electrical durability for 50,000 operations
24 Vcc tau = 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 Va 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 OA**
Switching voltage 250 Va max
Switching current: 8 A / Derating: CEI ≥ 55°C or UL ≥ 45°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 Vc 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 Va 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

# EM4 (3 to 5 Networks) 2026




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