2026

Installer / User manual - MDX enclosure water leak detector (1 water network)

Commercial Versions **MXD-T1.01** / Residential **MXD-R1.01**

ECOSENTRY thanks you for choosing this Water Leak Detector
This high-performance leak detector can detect water leaks from a leak flow rate of:
RESIDENTIAL VERSION, SOFT M**XD-R1.01:** 1 litre/h (small diameters Dn15-20)
COMMERCIAL VERSION, SOFT **MXD-T1.01:** 10 litres/h (diameters Dn20-40), 25 litres/h (large diameters Dn50-80), 40 litres/h (Dn100)(Meter accuracy, example on DN25: metering error margin of 5-7% at flow rates <15L/hour)

This detector monitors leaks, pipe bursts, daily consumption and the main transmitter. This monitoring is carried out by permanently reading the flow passing through.
If a fault appears, the alert is given by the buzzer and the water supply is shut off *
In the event of a pipe burst, the system has a sudden flow acceleration detection and triggers the safety shut-off* very quickly (*with shut-off device installed)
The system has an auto-setting function for the Leak trigger thresholds. (2 threshold levels)
The system has a built-in weekly TIMER (for automatic Opening/ Closing of the water network)
The system has an input for adding a temperature probe (option), in order to monitor the temp. of a room, for example.
The checks and tests carried out ensure that the product complies with the requirements of the European Directive. CE

IMPORTANT

Read all the instructions.
The central control box can be installed indoors or outdoors under a shelter.
Install the control box away from impacts and water splashes; do not install it in a very dusty room.
Fix the box securely.
The central control box must not be installed near a heat source (1m minimum distance).
When mounting all the components, the unit must be switched off.
The pulse transmitter, the water meter and the shut-off valve can be installed outdoors.
Only connect the electrical components together with cables complying with the standards in force.
When pressing the control screen, please press moderately on the screen, in order to avoid any risk of injury.
Protect the outgoing line of the 230v supply cable of the control box with a 10A-16A maximum circuit breaker.
See the recommendations on page 2. **Keep these instructions.**

NOTE: Do not install an automatic shut-off device on water networks reserved for firefighting. In buildings equipped with fire hose reels (R.I.A.) or with fire hydrants, no automatic water shut-off device may be installed on these water networks.

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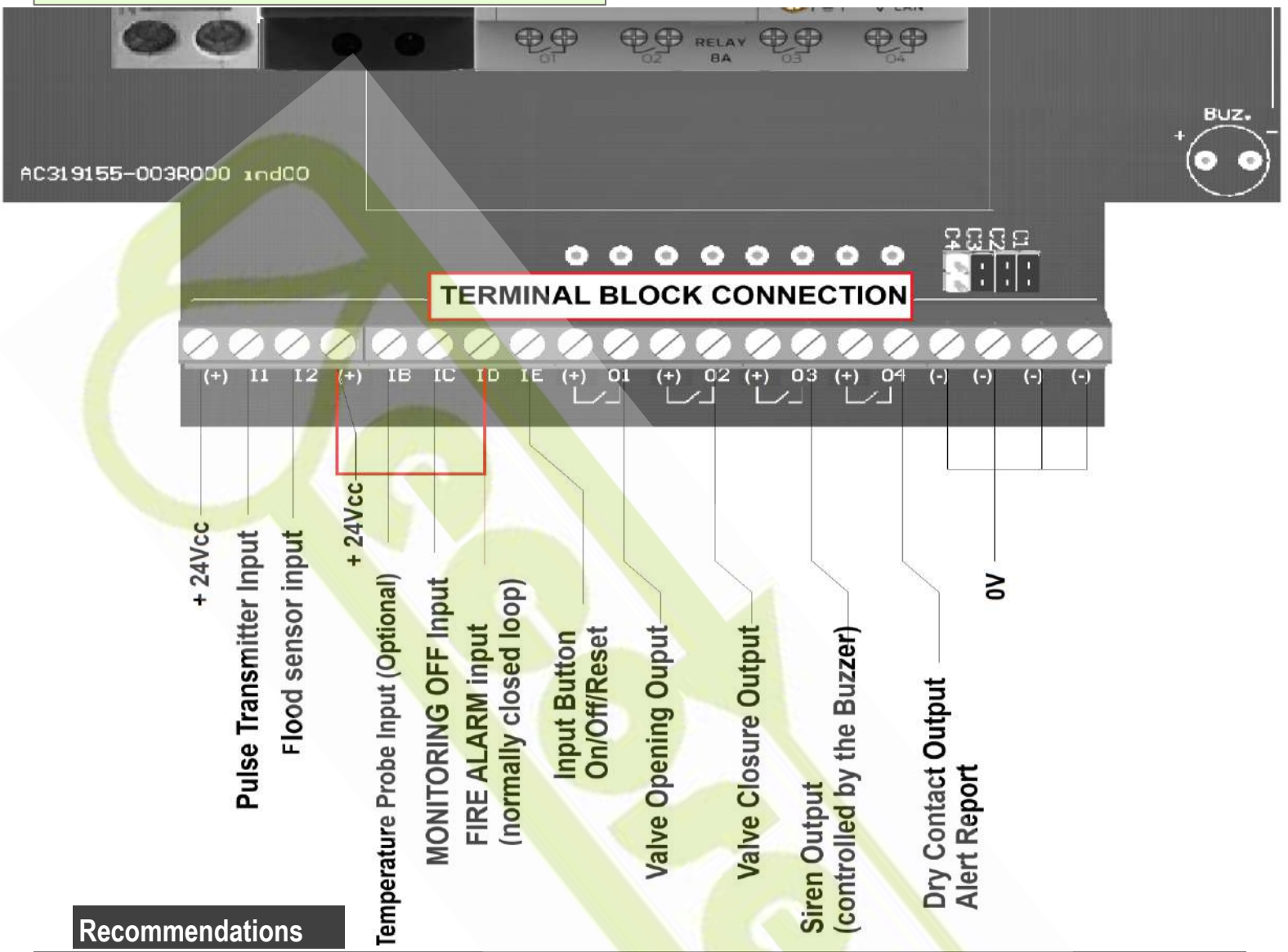
1.0 CONNECTION TERMINAL BLOCK



Recommendations

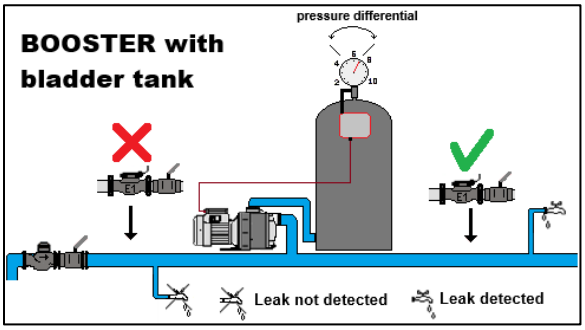
W A R N I N G : in buildings equipped with fire hose reels (R.I.A.) or with fire hydrant devices, any water shut-off device is prohibited on these water networks reserved for protection in the event of fire

Appliances operating with a water supply:

If the water network shut-off device is installed, make sure that a shut-off of the water network will not damage any of your appliances connected to the water network.

Check that they have a safety device to shut them down when there is no more water.

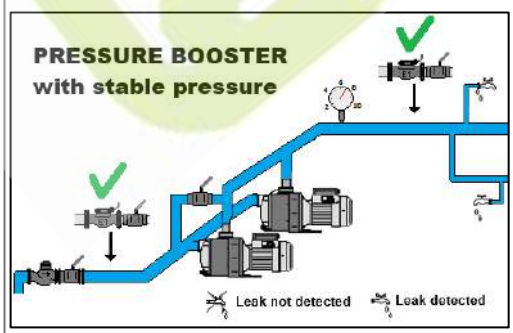
The user having been warned, ECOSENTRY accepts no liability for damage caused to appliances connected to the water network.



Leaks occurring upstream of the main transmitter E1 cannot be detected.

Caution: if booster sets with bladder tanks are installed on the network, do not install the main transmitter E1 upstream of them.

The high and low pressure differential setting of the booster sets must be as narrow as possible, in order to avoid too great a drop of a leak flow rate at low pressure.



1.1 WIRING DIAGRAM

MXD

ECOSENTRY
CI M3

230vac

24/28vcc

Schneider Electric

CROUZET Millenium XD12R

-| Consumption
M| Forced March
E| Water Flow Meters
N| System Settings
U| Automatic Thresh. Adju
-| Leak Log

INPUT: 100-240VAC
0.88A 50/60Hz
OUTPUT: 24V ⎓ 1.5A

C16

230vac 230vac

AC319155-003R000 indCO

Buz.

MODBUS RS485 OPTION

RS485 INTERFACE
MI485P
POLARIZED

I1 I2 IB IC ID IE (+) O1 (+) O2 (+) O3 (+) O4 (-) (-) (-) (-)

NTC2 Temperature Probe
-35°C - 120°C (Optional)

+ IE

O2 Red

O1 Black

Common 0V Blue

24Vcc

On / Off / Reset button or / and 100m radio remote control

L
N

5L PULSE TRANSMITTER
3 Pulse outputs
White wire on +24vdc
Brown wire on I1
or Yellow wire on I1
or Green wire on I1

Attach the transmitter to the speedometer

Attach the transmitter to the speedometer

1L PULSE TRANSMITTER
White wire on +24vdc
Brown wire on I1
Green wire not connected

Motorized valve 230Vac
to be wired with relay REF. REL2401

(+) O2
O2 -
CLOSE Com

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

NEW CWX Valve

RD Opening Rouge
BU Closing Bleu
YW Common Jaune

(+) O1 (+) O2
RD BU YW

indicateur position

3/4" et 1"

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

RD	Closing	Red
BK	Opening	Black
BU	Common	Blue
WT	Commun retour information	White
GY	Retour information ouverture	Grey
BR	Retour information fermeture	Brown
Y/G	Masse	Yellow/Green

(+) O1 (+) O2
BU BK RD

BU RD BK WT GY BR Y/G

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

RD	Closing	Red
BK	Opening	Black
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Y/G	Masse	Yellow/Green

230Vac

BU BK RD

BU RD BK WT GY BR Y/G

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

1.2 SYSTEM INSTALLATION

1 - The LCD enclosure must be installed inside technical rooms (preferably) or another room. (Enclosure with IP65 watertight door)
Preferably install the box in a place not exposed to sunlight to avoid a rise in temperature.
Designed to operate from 0°C to 50°C. Fix the unit firmly to a wall. (Fig.1)

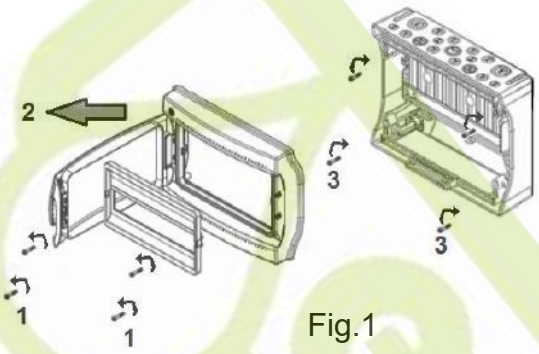
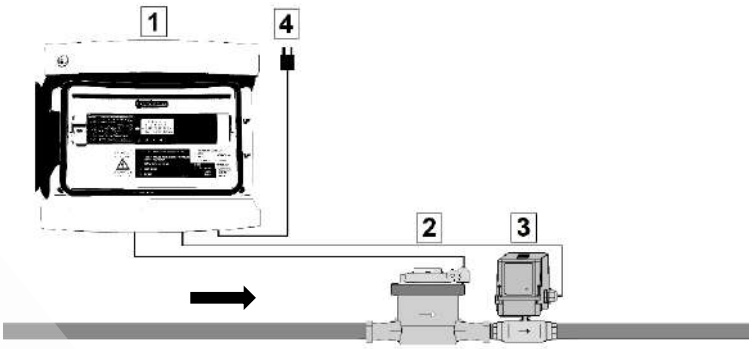


Fig.1



2 - The meter + transmitter must be installed as close as possible to the main meter, just after it (In order to fully protect the water network). Check the correct direction when fitting.
Version MXD-R1.01: Pulse weight **1L**
Version MXD-T1.01 : in settings, (meters DN15 to 40) set the weight to **1L ,** (flanged meters DN50 to 100) set the weight to **5L**
Connect the transmitter to the enclosure. (see wiring diagram page 3)
If the cable has to be extended (for lengths <=50M), the connection must be made by tin soldering; use a shielded cable with one pair of 9/10 (0.9mm) minimum cross-section (connect the shield to earth).

3 - Install the valve (or solenoid valve) as close as possible to the meter/transmitter E1.
The valve can be located remotely if it is impossible to install it just after the meter/transmitter E1.
Connect the motorised valve with a cable of appropriate cross-section (see table below).
See the wiring instructions supplied with the valve.
TCR valves mounted outdoors (chamber, pit) , the valve must be powered by the enclosure (anti-condensation heater) See wiring diagram page 3.
IMPORTANT: Make sure it is properly watertight after fitting the meter E1 and the valve with the main meter.
The system can only detect leaks downstream of E1 (main transmitter).

4 -Connect the power supply to the LCD enclosure (110230vac)
See wiring diagram page 3
After checking the wiring, switch the power on.

IMPORTANT: never operate a valve manually while it is powered.
Flanged valve mounting: the valve must imperatively be tightened with the butterfly in the open position. (risk of deforming the seal)

VOLTAGE 24 VDC	Cable section	Maximum Length
CWX-IP65 5W Valve		
CWX-24Vcc valve from 3/4" to 1" 10bar	0,5mm² 1 mm² 1,5mm² 2,5mm²	25m 50m 80m 120m
TCR-02N Valve IP67 15W		
TCR-02N Valve - 24 VDC 3/4" to 1" 16bar	1 mm² 1,5mm² 2,5mm² 4mm²	30m 45m 70m 110m
TCR-05N Valve IP67 25W		
TCR-05N Valve - 24 VDC 1-1/4" to 2" DN50 to DN125 10bar 16bar	1 mm² 1,5mm² 2,5mm² 4mm²	20m 30m 50m 75m

ALTAIR & AQUILLA meters
DIEHL METERING

Nominal Flow-	Max. Flow
DN15: 2.5m3/H	-3.12m3/H
DN20: 4m3/H	-5m3/H
DN25: 6.3m3/H	-7.9m3/H
DN32: 10m3/H	-12.5m3/H
DN40: 16m3/H	-20m3/H
DN50: 25m3/H	-31.2m3/H
DN65: 40m3/H	-50m3/H
DN80: 63m3/H	-78.75m3/H
DN100: 100m3/H	-125m3/H

2.0 COMMISSIONING

Switching a network ON or OFF

On first start-up the system is OFF (Monitoring OFF)
Water must not flow (solenoid valve / motorised valve closed, powered from output O2 +24Vdc).
If water flows, switch off the power supply to the enclosure and check that there is no reversal on the solenoid valve connection, check the wiring of the motorised valve (**see page3).**
When OFF, open a tap; if water does not flow the solenoid valve is correctly connected.

CODE1 required

To switch to ON (Monitoring ON) , 1x

The system asks for a 4-digit access code to unlock the controls (unlocked for 15 min),
Set each digit of **Code 1** with + and confirm with ✓
Confirm the command with ✓

See CODES below

The system is now monitoring; open a tap to see the water flow, the flow rate is displayed at each litre consumed (pulse transmitter)

WARNING: Set the pipe burst flow rate manually and put the system in Auto-setting of the leak thresholds (See page 11).

2.1 MENU

NOTE: The LCD screen lights up when one of the keys is pressed.
If a fault is detected (Leak, Consumption Alarm, Transmitter, Fire alarm), the screen stays lit in Red as long as a fault is present; when navigating in the MENU the screen is lit in Green.

CODES
Level 1: (Commands): **1700**
Level 2: (Counters, Settings): **1940**

2.2 CONSUMPTION

CODE1 required

In MENU select Consumption ✓

Soft Version MXD1.01:

Total consumption of the main meter E1 for the current day in Litres.
Total consumption for the current month in m3
Displays the minimum flow rate recorded since 00:00 or since the last leak.

Displays the meter index.
At installation, synchronise the enclosure index with the one read on the meter.
To do this, modify the displayed value:
The black squares ■ flash on the INDEX value, which means that the value can be modified; the same applies to all the value Settings in the program.
To modify the value press ✓ , the value starts flashing , Set with + −, confirm with ✓ .

2.3 FORCED OPERATION

CODE1 required

In MENU select Forced Operation

The FORCED OPERATION makes it possible to force the system temporarily out of MONITORING MODE for a programmed time (Adjustable duration: from 1 to 4 Hours)
This Mode allows a heavy use of water without triggering a Leak alarm.

C A U T I O N : No leak detection is possible during the Forced Run

To start the FORCEDOPERATION, press B the buzzer sounds
Display of the elapsed time (in progress: 0000hours) since the start of the Forced Run
To Stop the Forced Operation before the end of the time , press A
At the end of the programmed time the system automatically returns to Monitoring.
NOTE: on the board, a pulse on input I4 activates the Forced Operation for the same duration.

On the main page, the screen flashes from green to red
NOTE: Switching to OFF (closing the network) stops the Forced Run

2.4 LEAK / Reset

NETWORK RESET

CODE1 required

When a leak is detected the ALERT sounds, pressing A acknowledges the buzzer
The recorded leak flow rate is displayed.
In System settings, if output O4 (dry contact) Leak Alert is set to 1, contact O4 closes.
The safety Shut-off permanently closes the water network (with shut-off device installed)

To RESET: 3x , then confirm with

In the event of an ALERT the screen stays lit Red as long as the Alert is present, the buzzer sounds (default duration 300sec, adjustable)

The SAFETY SHUT-OFF will only be TRIGGERED if the following conditions are met:

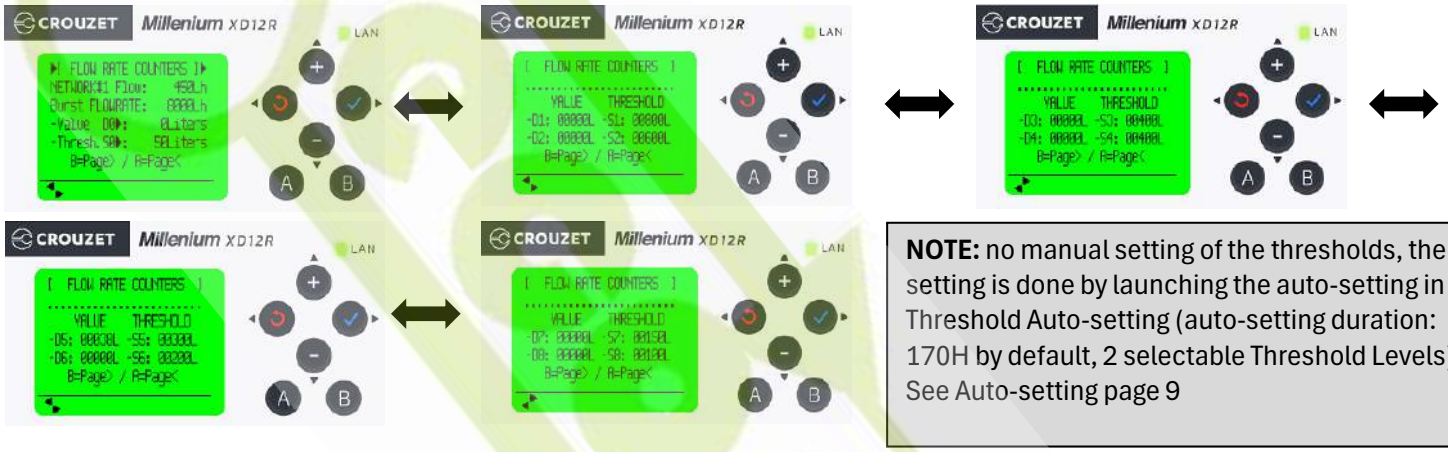
1- the recorded leak flow rate must be > or = to the setting of the minimum Detected Leak Flow rate
2- the Shut-off device setting must be on motorised valve or Solenoid valve (set to 1) (0= no Shut-off device/ 1= Shut-off device installed)
3- input ID (Fire alarm) of the controller must not have a broken loop
4- The system is not in Forced Operation
5- input IC (Stop monitoring) is not activated
6- The Shut-off on leak Setting is set to: 1

2.5 FLOW RATE COUNTERS CODE2 required

In MENU select Flow Rate Counters ✓

IMPORTANT: Program an Auto-setting of the leak thresholds when installing the system (page 9)

Scroll through the flow rate counters D0 to D8 using the keys A and B



NOTE: no manual setting of the thresholds, the setting is done by launching the auto-setting in Threshold Auto-setting (auto-setting duration: 170H by default, 2 selectable Threshold Levels) See Auto-setting page 9

Stable flow rate counters (D): flow rate divisions (bands)

	D0 Burst Flow	D1	D2	D3	D4	D5	D6	D7	D8
Version MXD-R1.01	xxxx L/h set to suit Meter	>=1200L/h	>=800 <1200L/h	>=500 <800L/h	>=250 <500L/h	>=100 <250L/h	>=20 <100L/h	>=5 <20L/h	>=1 <5L/h
Version MXD-T1.01	xxxx L/h set to suit meter	>=5000L/h	>=3000 <5000L/h	>=1500 <3000L/h	>=720 <1500L/h	>=300 <720L/h	>=100 <300L/h	>=50 <100L/h	>=10 <50L/h

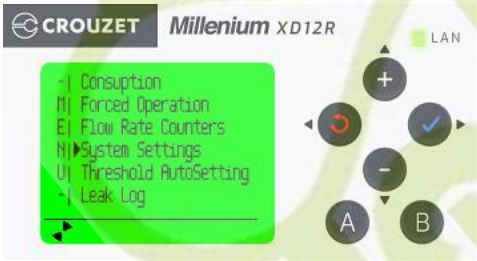
You can view in real time the current consumption values on the flow rate counters and the alert trigger thresholds.
Value: displays the current counting value in LITRES on a stable flow rate in progress.
(versions MDX-R1.01 pulse=1 litre) (version MDX-T1.01 pulse=1 or 5 litres depending on the setting)
(flanged meter Dn50-100, set the weight to 5 L in System Settings)
The value in litres adjusts automatically to the pulse weight set in SYSTEM SETTINGS
Threshold: displays the default value; if the current value of the stable flow rate reaches the threshold value, the Leak Alert is then Triggered
In its leak detection program, the system calculates the instantaneous flow rate at each litre consumed.
Once this flow rate is stable, the system starts counting on the counter (Dx) of the corresponding stable flow rate band.
When water is used from the network, you can see which flow rate counter is advancing (after the flow stability conditions are met).
If the flow rate is reduced sufficiently, you can see the current value of the flow rate counter being reset to zero, and once the new flow rate is stable, you can see the current pulse count value on the counter of the current flow rate.
You can thus check all the flow rate counters, in order to see whether counting after stabilisation is done correctly, as well as the cascade reset of the counters when the flow slows down or stops.
When this flow rate slows down sufficiently, the system performs a RESET on this counter. If this flow rate remains constant within the flow band, counting will inevitably reach the trigger threshold of the **LEAK Alert.**
If the Shut-off device is installed, the valve then closes the water network.

IN THE EVENT OF NUISANCE ALARMS.

Example of the alert being triggered during another normal, justified use of water.
If the alert is regularly triggered by this normal use of water, and the alert disappears as soon as the users stop consuming, in this case an AUTO-SETTING of the Leak thresholds must be launched (see page 9)

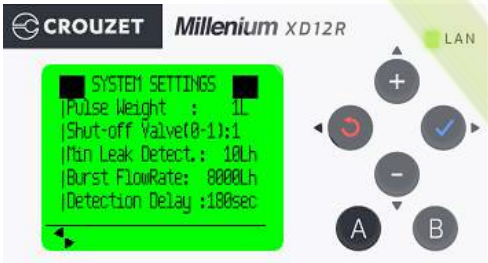
CAUTION: An alert triggered by a tap left running is considered as a leak by the system,
in this specific case, do not regard the detected leak as an incorrect setting of the trigger thresholds.
On automatic watering networks , in order to avoid nuisance shut-offs, it is preferable to split the duration of the watering cycle with a stop of at least 10min between each cycle.

2.6 SYSTEM SETTINGS — CODE2 required



In MENU select System Settings ✓

Scroll through the flow rate counters D0 to D8 using the keys A and B



Pulse weight: 1L, set the pulse weight according to the meter installed (DN15 to 40-weight 1L / DN50 to 200- weight 5L or 10L depending on the meter)
Shut-off Valve: 1 , 1= Shut-off device installed / 0= No Shut-off
Min Leak Detection: 10Lh , Flow rate from which the system detects leaks.
Burst Flow Rate: 8000Lh , if this flow rate is exceeded, the system considers that there is a pipe burst and quickly closes the valve.
IMPORTANT/ Set this Burst flow rate according to the Nominal flow rate of the installed meter.
See meter table page 4
Detection Delay: 180sec , after switching to Monitoring the system waits 180sec before starting to detect leaks. (Avoids nuisance shut-offs)

Daily Threshold: 10000L , If the day's total consumption reaches this threshold The Consumption Alert is triggered.
Max Day /Year : 15350L , Gives the day when consumption was the highest since the beginning of the year. This value is used as a reference for setting the Threshold.
If necessary set the Threshold to twice the value of the Maximum day.
Consumption Shut-off 0/1: 0, if Set to 1, in the event of a consumption Alert the valve closes; if set to 0 (default) no shut-off, only the Alert
LEAK Shut-off 0/1: 1 , default setting 1,
if set to 0, the system triggers the Leak Alerts but will not close the valve, except in the event of a pipe burst (very high flow rate) - This setting is not allowed to be modified.

Transmitter Monitoring: 1 , default setting 1; if set to 0 there is no monitoring of the meter pulse transmitter.
IMPORTANT/ Correct operation of the transmitter is essential to ensure that the system works properly in Leak Monitoring.
It is strongly recommended to leave this setting at 1.
Transmitter Alert without pulse / No. of H: 96 , If there is no flow pulse during this time, the Transmitter Alert is triggered.
Each pulse generated by the meter resets this time to 0, so if the transmitter no longer works (battery life +- 15 years, broken wire, etc...) , the system will warn via the Transmitter Alert that Monitoring is no longer functional.
TRANSMITTER Shut-off (0/1): default setting 0,
if set to 1, in the event of a Transmitter Alert the system closes the valve.

Dry Contact O4 Alert Repeat

ContactO4(NO=0/NC=1) 0 ,contact O4, controlled by the various Alerts, can be Normally Open or Closed as required. Default setting 0

LEAK Alert : 1

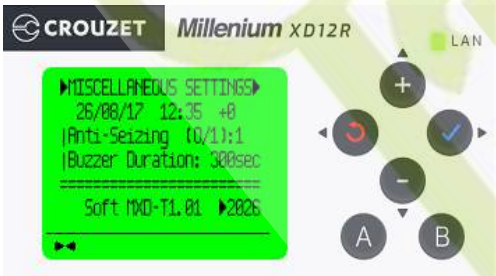
CONSUMPTION Alert : 1

TRANSMITTER Alert : 1

FLOOD Alert : 1

By default the settings are at 1 , which means that if one of these alerts occurs (set to 1) Contact O4 will remain closed (NO setting) as long as an Alert is present.

Allows a siren or an alarm indicator light to be connected, or reporting to a BMS.



MISCELLANEOUS SETTINGS

Date and time settings: Adjust if the time and date need to be resynchronised.

•+0: The Clock calibration is done in seconds per week (from -59s to +59s).

•The calibration is applied on Sunday at one o'clock in the morning .

Depending on the Altitude and the temperature , the clock may drift regularly; it can be corrected with the automatic calibration, for example if the time gains 35sec each week, set it to -35.

Anti-Seizing (0/1) : 1 , Default setting 1, on the 1st of each month at 00:00, the valve performs a closing then returns to its initial position, in order to prevent the valve body from seizing.

Note: if for any reason the valve is already closed, then no action will take place.

Buzzer Duration : 300sec, (default setting), maximum buzzer sounding time in the event of an Alert.

To Stop the buzzer quickly , Press the key A on the main page.

Soft MXD-T1.01 -2026 indicates the software version of the product and its year.

2.7 LEAK THRESHOLD AUTO-SETTING CODE2 required

In MENU select Threshold Auto-setting ✓

LEAK THRESHOLD AUTO-SETTING

Duration:170Hours default auto-setting duration of the Leak Thresholds (7 days). Recommended duration

Elapsed: 0Hours time elapsed since the start of the Auto-setting

LEVEL:1 By default the Auto-setting LEVEL is at 1 , for later trigger thresholds set LEVEL to 2 and restart an Auto-setting.

State: Off Displays whether the Auto-setting is activated or not activated.

Note: In the event of a Leak the Auto-setting stops automatically because one of the thresholds has reached its maximum ceiling; the leak must be found and then an Auto-setting restarted, as the previous one was distorted.

To start the Auto Adjustment, press B

To stop the auto-adjustment, press A

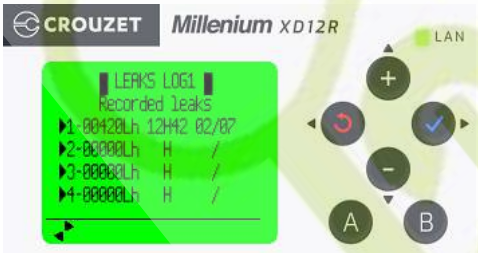
W A R N I N G : **Leak detection** is delayed during the leak threshold Auto-setting period, because the system sets the thresholds according to the volumes consumed in the flow rate bands. If a leak occurs during this period, the system stops the auto-setting because the threshold settings have been distorted by the leak (set to values that are too high).

Repair the leak before restarting an Auto-setting under good conditions.

C A U T I O N : restarting an auto-setting frequently is strongly discouraged because leaks would be detected late, leading to greater water losses.

2.8 LEAK LOG

In MENU select Leak Log



LOG of recorded LEAKS

The last 8 leaks are recorded, 1 being the oldest and 8 the most recent.

1-00420Lh 13H42 02/07

On-screen indication of the recorded leak flow rate

On-screen indication of the time of triggering

On-screen indication of the date of triggering

To switch **from Log 1 to Log 2** use the keys + -

2.9 CODE SETTINGS

CODE2 required

In MENU select CODE Settings

CODE SETTINGS 1 -2

Select the digit to be set with the keys + -

Enter **setting mode** by pressing the key

Change the value with the keys + -

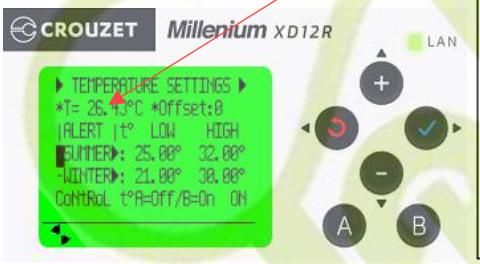
Confirm with the key

To go to the **CODE2 page press** B

To return to the **CODE1 page press** A

3.0 TEMPERATURE SETTINGS CODE2 required

In MENU select Temperature Settings



TEMPERATURE SETTINGS

Optionally, a Temperature Probe can be connected to Input I3 (see wiring diagram page 3).
Temperature measurement on the probe
With this probe you can monitor the Temperature of a Room and trigger **an ALERT if the measured T° is outside the defined limits**.
The Low and High Threshold Settings are the acceptable Temperature limits of the Room to be monitored
the limits can be set for the SUMMER period (starting the last Sunday of March) and the WINTER period (starting the last Sunday of October)
The flashing Black Square ■ indicates the current period .
To Activate the Temperature monitoring Press B
To Deactivate the Temperature monitoring Press A
In the event of a Temperature Alert , the Buzzer sounds , the main screen turns red.

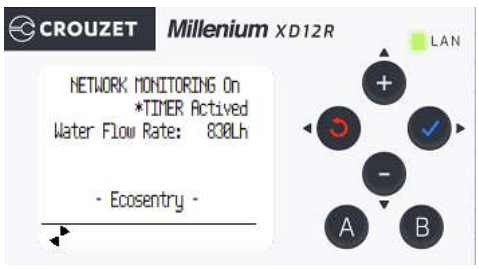
3.1 WEEKLY TIMER CODE2 required

In MENU select Weekly TIMER

WEEKLY TIMER

The Weekly TIMER makes it possible to open and close the water network at the programmed days and times.
3 Start settings and 3 Stop settings can be set, from Monday to Friday, then Saturday and Sunday.
If the Start and Stop settings are at 00H00, the system considers that day as not programmed.
Position the flashing black square on the value to be set (hour, minute)
Press ✓, the digit flashes, set with + -, Confirm with ✓

Proceed in the same way for each value to be set.
To Activate/Deactivate the TIMER press simultaneously A and B
The message « TIMER Activated » or « TIMER Deactivated » is shown on the screen.

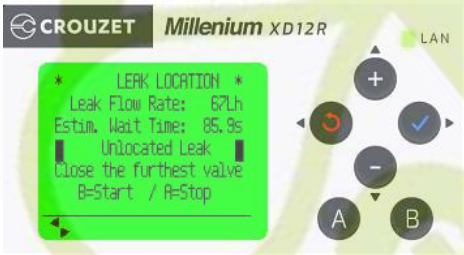


On the main screen, when the TIMER is Activated :
During the ON hours , display:
« NETWORK MONITORING On »
« * TIMER Activated* »

During the OFF hours, display:
« NETWORK MONITORING OFF »
« ****Stop*TIMER Waiting* » (flashing)

3.2 LEAK LOCATION CODE2 required

In MENU select Leak Location ✓

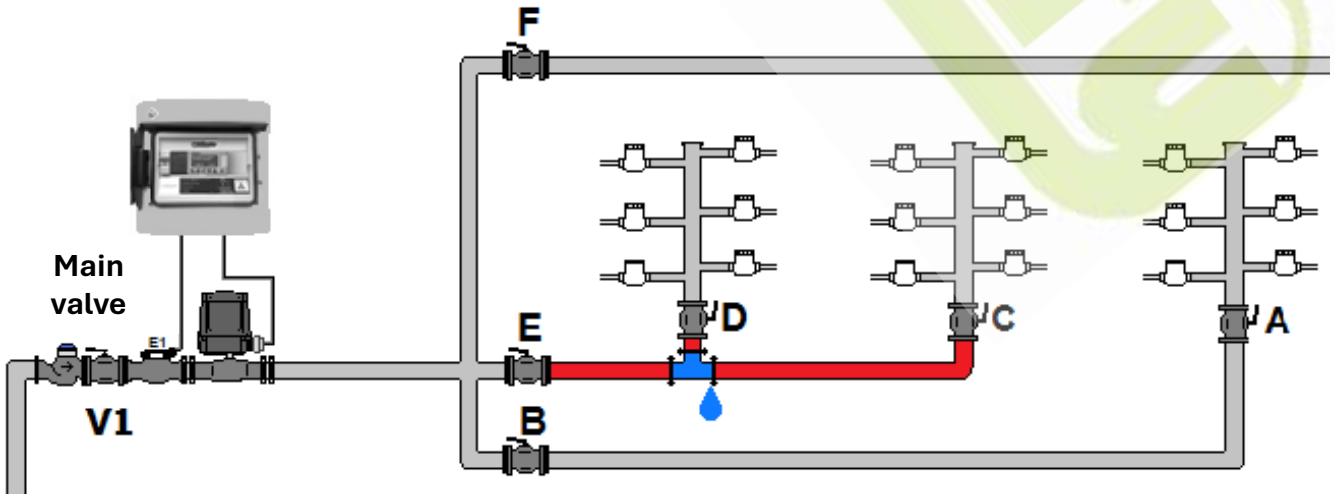


LEAK LOCATION

This part of the system makes it possible to locate the section of pipework that is leaking.

The recorded leak Flow rate is displayed: 67Lh
The System is in shut-off , the valve is closed
The approximate waiting time (wait) without a pulse to the box is displayed (depending on the Leak flow rate): 85.9sec
The system indicates to Close the farthest valve on the network (in the example **Valve A**) and to start the Location by pressing the key B .

This part of the system makes it possible to locate the section of pipework that is leaking.
At the Start **the valve opens for 1H** to allow the location
OPEN Flashes.
D:00450 Indicates the last flow rate passing through
If this last flow rate is too high, the system waits for the general network flow to slow down .
Current Time: Indicates the time elapsed before the next pulse, which will define the flow rate passing through. This must be > the estimated waiting time to indicate that the flow has slowed down sufficiently and to cancel the Leak.
When the meter pulse occurs, **if the flow passing through** is relatively close to the leak flow rate the System displays « **Unlocated Leak**»
Then close the previous valve (**Valve B** in the diagram) leaving valve A closed and start the Location by pressing the key B
Proceed in the same way each time the system displays « **Unlocated Leak** »
Closing the valves one after the other, from the farthest to the closest to the water meter.
Suppose that after closing Valves **A, B, C, D and E** and restarting the Test, the System displays « **Localized Leak after the last valve closed**».
The leak is therefore located between **valves E, D and C.**
The system has returned to **Monitoring mode On.**
Note: To stop the location in progress press the key A .
If the leak was not yet located, the system returns to its initial state, that is to say in **Safety Shut-off.**



3.3 Additional INPUTS

DIAGRAM Page 14

Input ID:

Normally closed loop.

If the +/ID loop is interrupted, the fire alarm is triggered, the shut-off valve opens whatever the state of the system, OFF or SHUT-OFF

the intermittent buzzer sounds.

A switch button (NC) «water» can also be connected, which will act as above, the shut-off valve opens whatever the state of the system,

OFF or SHUT-OFF

See diagram page 14

Input IC:

Suspend the monitoring for 2 hours (adjustable 1h to 4h) (Activates the Forced Run)

Connect a weekly time switch, connect +24vdc and IC to the dry contact terminals (NO)

A pushbutton can also be connected; a pulse then activates the Forced Run.

Leak Monitoring is suspended for the time programmed in Forced Run when the contact closes.

See diagram page 3

Input I2:

Connection of a floor water detector (Optional)

When one of the floor water sensors comes into contact with water, the system triggers the Alarm and closes the valve after 30sec.

See diagram page 14

NOTE: If necessary, you can adjust the sensitivity of the water sensor on the Flood Sensor unit (Sensitivity adjustment with potentiometer)

Input IE: On/Off/ Reset

Allows a pushbutton (NO contact) to be connected to + 24vdc and input IE (remote on/off /Reset control)

By pressing the button, if the system is on, it switches to Off, and vice versa.

In the event of a Shut-off, a 3 sec press RESETS the system.

See diagram page 3

Input IB: Temperature PROBE

A temperature Probe can be connected to this input.

If the high and low Threshold limits are exceeded , the Alert is triggered

See diagram page 3

Output O3:

Allows a 24vdc siren or a 24vdc indicator light to be connected,

it will be switched on together with the buzzer

Output O4:

Allows a fault repeat indicator light to be connected.

Contact O4 remains closed* or open* as long as a fault is present.

See in settings to configure the faults closing contact O4.

If jumper C4 is fitted on the board, connect a 24vdc indicator light to O4 and -.

230vac lamp C A U T I O N

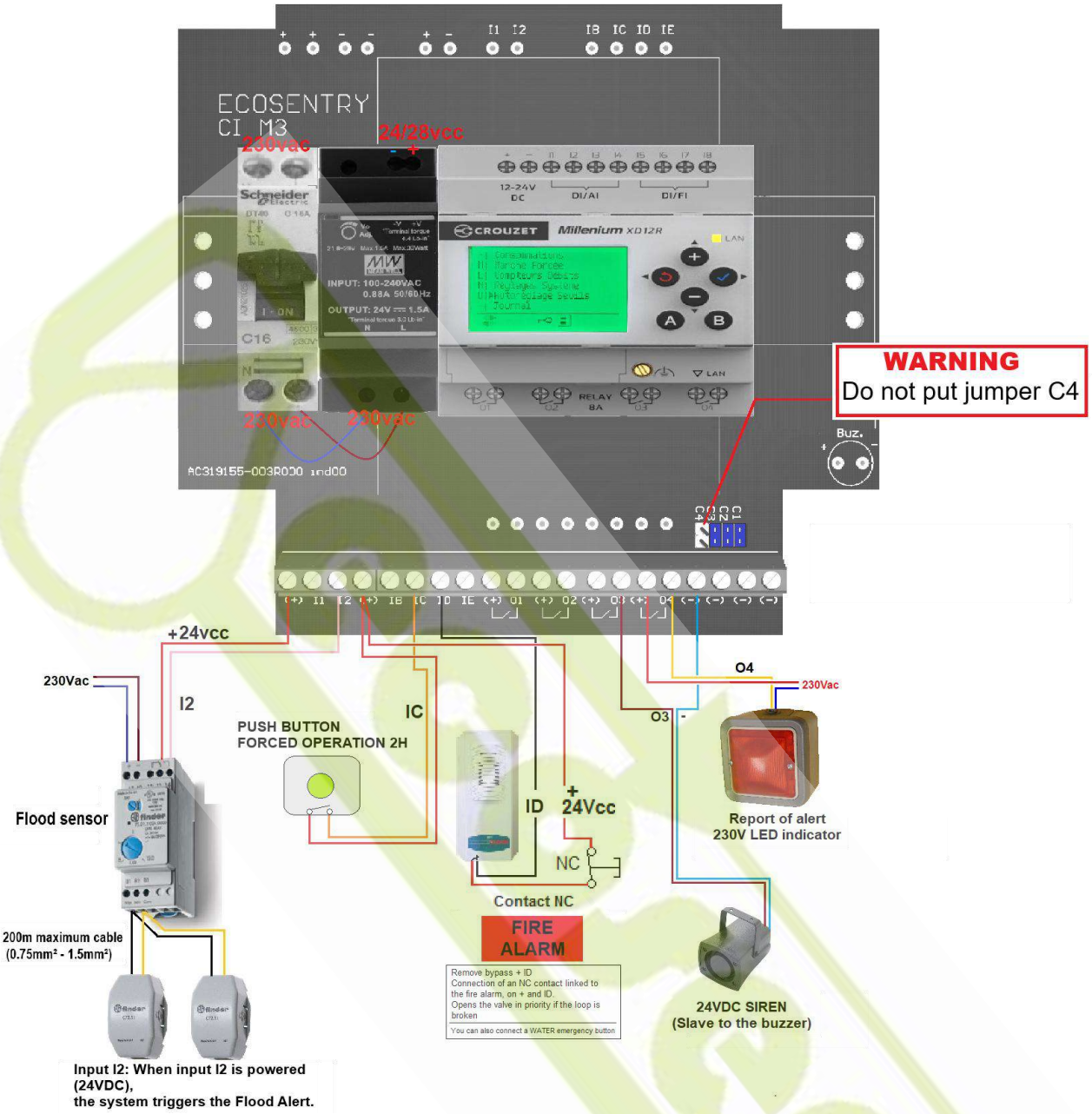
To use contact O4 as a dry contact, do not fit jumper C4 on the board,

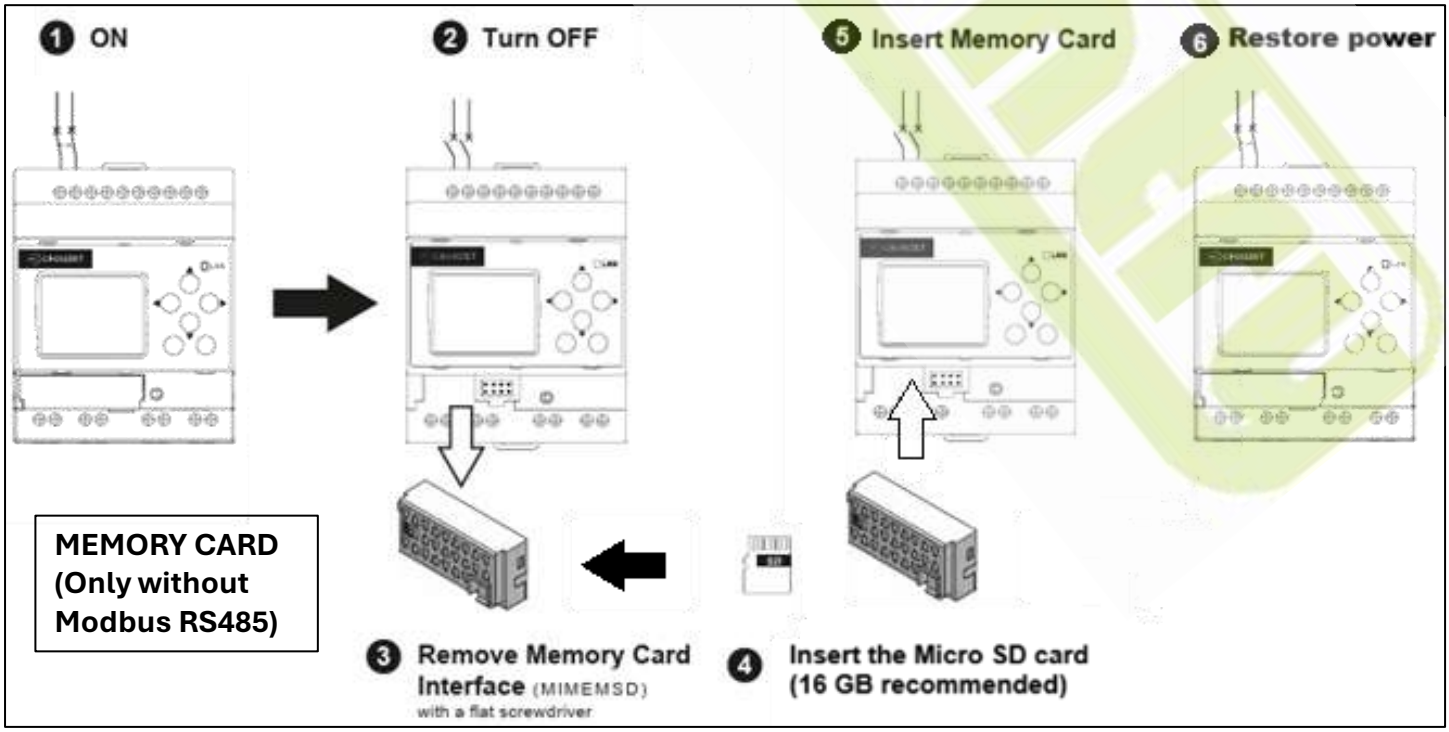
Connect Ph 230v to the (+) and the indicator light return to O4

Connect the N of the indicator light to the neutral (230v).

*In System Settings- OUTPUT O4
No/Nc:00000 **(The contact is NO) ,**
No/Nc:00001 **(The contact is NC)**

Diagram of Additional INPUTS





4.0 SPECIFICATIONS

Made in France

General specifications

MXD controller 24 VDC

Housing material : Polycarbonate
Dimensions (LxW xH) mm : 72 x 90 x 63.1
Weight: 225gr
Ethernet Modbus TPC/IP (Client / Server)
Modbus RTU RS485 (Client / Server) Optional
Input voltage: 0- 28.8V
Operating limit: 10.8 V AC→28.8 V AC
Operating frequency: 50/60 Hz (+4 % / -6 %), i.e. 47→53 Hz / 57 →63 Hz
Power consumption: 3 W at 28.8V
Reverse polarity protection
LCD display: 6-line display of 24 characters, White or Green or Red background
Operating temperature from -20 to +55°C
Immunity to power micro-breaks : 1ms
Power supply monitoring : Yes, Value via the Status block
Relative humidity 10 to 95% RH non-condensing.
Environment with pollution degree 2.
Degree of protection: IP 40 on the front panel, IP20 on the Terminal block
Vibration resistance (IEC 60068-2-6): rail and panel mounting: 5 to 9 Hz, amplitude:3.5 mm
From 9 to 150 Hz, acceleration: 1 g
10 cycles/axis, 1 octave/minute.
Altitude: from 0 to 2000m.
Applicable standards/operating conditions: IEC/EN 61131-2

Inputs

Input voltage: 0 to 28.8V
Input impedance: I1 to I4 40kOhms / I5 to I8 13kOhms
Switch-on voltage at logic state 1: >8.5 V dc
Switch-on current at logic state 1: >0.1885mA
Release current at logic state 0: = 5 Vdc

Relay output specifications

Max. Breaking voltage: 230Vac- 30Vdc
Max. Breaking current: 8A 230Vac- 8A 30Vdc
Mechanical service life: 10 000 000 (operating cycles)
Response time: Pick-up 10 ms, Drop-out: 5 ms

MW Power supply 24 VDC 30W

Nominal output voltage: 24 V (22.8 V →29 V)
Output power: 30 W

Nominal output current: 1.25 A

SEE THE TRANSMITTER, METER and VALVE SPECIFICATIONS in the instructions supplied.

The checks and tests carried out ensure that the product complies with the requirements of the European Directive. CE

Download the technical data sheets

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