

# Mwrc I-Mwrc2

*Rail Control Water: automatic system for use rain water in place of potable water*

In domestic use about 50% daily water needs can be replaced by rain water. Rain water, for its characteristics, is more suitable for irrigation and washing clothes.

The MWRCI is a device that permits the automatic control of the use of rain water in place of that which comes from the aqueduct when drinking water is not strictly necessary.

The device also checks that the cistern that collects the rain water is at the correct level needed, by automatically switching to the aqueduct water if water level is low or absent.

After the installation and the electrical wiring has been made by specialized personnel, the MWRCI will perfectly control your system in the use of rain water.

The green LED "System Ready" turns on, the device is set on automatic, and from that moment on the MWRCI will check the level of water in your cistern and automatically switch over to the aqueduct water in a situation where there is not enough water in the cistern.

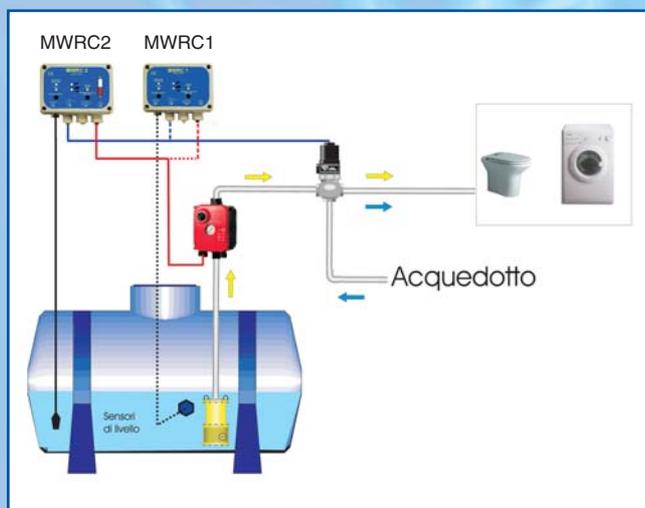
As soon as the cistern reaches the minimum level, the device returns to the position of the use of rain water, thus avoiding an unnecessary consumption of water from the aqueduct.

By pressing the "Simulation Low Level Rain Water" button, it is possible to simulate the lack of water in the cistern; for as long as the button is held down, the system will operate with water that comes from the aqueduct.

Once a day a valve is automatically switched on to make sure that the device is operating properly.

If one should choose to operate the system with only drinking water (for example, during maintenance) the device can be set on "Permanent Fresh Water", thus by-passing the rain water cistern.

The MWRCI model has a display that shows the water level in the cistern. This level has to be surveyed by a pressure sensor that can be bought separately and usually comes equipped with a 6 meter cable.



| Type                     | MWRC1             | MWRC2                      |
|--------------------------|-------------------|----------------------------|
| Code                     | T00X003000        | T00X003100                 |
| Power supply             | 230V~ / 50Hz - 3W |                            |
| Power consumption        | 6 mA max.         |                            |
| Valve power supply       | 230V~ / 50Hz - 1A |                            |
| Pump power supply        | 230V~ / 50Hz - 5A |                            |
| Tank level control       | Float switch      | Sensor and/or float switch |
| Storage temp.            | -20 ÷ +80 °C      |                            |
| Operating temp.          | 0 ÷ +50 °C        |                            |
| Dimensions               | 127 x 87 x 61 mm. |                            |
| Weight                   | gr. 550           |                            |
| Rain water level display | No                | 10 Led bar                 |
| Sensor for MWRC2         | -                 | UB0040600                  |
| Protection grade         | IP 65             |                            |

# Raincontrol® LCD

*Appliance for the selection of either drinking or rain water with user friendly interface*

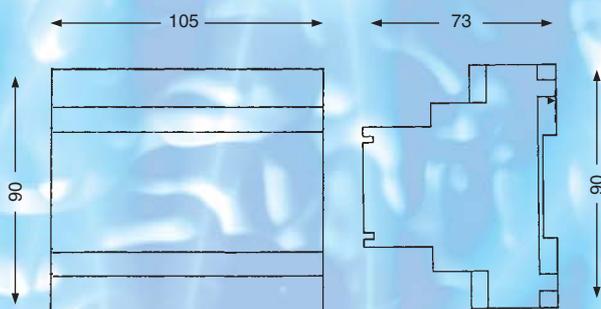
Raincontrol is a device for the totally automated control of the use of rainwater instead of that of the mains water supply, in cases in which drinking water is not strictly necessary. The device also monitors the rainwater recovery tanks in order to ensure that the water is at a correct level for use, and is automatically commutated in cases of low water levels, or in the event of total absence of water, into main water supply.

Raincontrol will monitor the level of the water inside your tank, and will immediately commutate to the mains water supply in the event of a lack of water. Once the tank has been restored to minimum level the appliance will return to rainwater mode, thereby avoiding any consumption of the mains water supply that is not strictly necessary.



| Type                            | Raincontrol LCD special  |                |
|---------------------------------|--------------------------|----------------|
| Code                            | TXL10XB100               | TXL10YB100     |
| Power supply                    | 117 V~/ 50÷60Hz          | 230V~/ 50÷60Hz |
| Consumption                     | 5,5V A                   |                |
| Display                         | LCD 2x16                 |                |
| Operating temp.                 | 0 °C ÷ + 50 °C           |                |
| Storage temp.                   | -10 ÷ + 60 °C            |                |
| Operative range                 | 0 ÷ 5 m H <sub>2</sub> O |                |
| Max. overpressure               | 10 m H <sub>2</sub> O    |                |
| Measurement accuracy            | ± 1% f.s.                |                |
| Resolution                      | 1 cm H <sub>2</sub> O    |                |
| Minimum obtainable differential | 2 cm H <sub>2</sub> O    |                |
| Output relay                    | 10A 250V~                |                |
| Available channels              | n° 1                     |                |
| Housing                         | NORYL UL 94 VO           |                |
| Dimensions                      | mm 105x90x73             |                |
| Weight                          | gr. 450                  |                |
| Device + sensor weight          | gr. 1290                 |                |
| Sensor                          | USBP52F10                |                |
| Protection grade                | IP 20                    |                |

| Sensor for Special LCD Sensopress |   |                 |
|-----------------------------------|---|-----------------|
| Housing                           | Steel   | Brass           |
| Code*                             | PRS50A5A1M10000   | PRS00A5A1M10000 |
| Functional principle              | Piezo-resistive ceramic, temperature calibrated and compensated capsule   |                 |
| Dimensions                        | mm 32x76  |                 |
| Weight                            | gr 840  |                 |
| Cable                             | PVC (2 wires + compensation hose)   |                 |
| Cable length                      | 10 metres   |                 |
| Installation                      | Internal or external on the tank  |                 |
| Measurement field                 | 0 ÷ 5 m H <sub>2</sub> O  |                 |
| Max. over pressure                | 20 m H <sub>2</sub> O   |                 |
| Operating temperature             | 0 ÷ +50 °C  |                 |
| Power supply                      | 18 ÷ 30 V 20mA max (derived from the appliance)   |                 |
| Output                            | 4 ÷ 20 mA Rt = 250 OHM max  |                 |
| Long-term stability               | ± 0,3 % f.s./year to 25°C   |                 |
| Zero thermal shift                | ± 0,02 % f.s. /°C   |                 |
| Span thermal shift                | ± 0,01 % f.s. /°C   |                 |
| Remarks                           | It may be used on all types of water with a pH value of between 5÷9. For use with other types of liquid please consult the factory. |                 |



\* Note with PVC cable. It can be used with shielded cable. IP 68 protection grade (Code PRS50A5A3M10000/PRS00A5A3M10000)

