



# Pressure Management Controller »



Galcon's Pressure Management Controller is a robust, flexible controller that is easily installed with any Pressure Reducing Valve (PRV). It enables highly accurate automatic pressure management, helping reduce leakage in water distribution systems.



- Home Gardening
- Professional Gardening
- Agriculture
- Waterworks



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Galcon's Pressure Management Controller is a state-of-the-art pressure management controller helping utilities to automatically control pressure levels and reduce leakage. The controller operates with any PRV equipped with a hydraulic pilot.

This advanced controller can be set to work in different modes of operation, including flow-based and time-based. Utilities can thus flexibly define and automatically manage pressure policies.

Battery-operated with up to 5 years of usage and remote management capabilities, the controller ensures a virtually maintenance-free operation throughout its life-span.

Galcon's controller can operate as a stand-alone product or in conjunction with our G-DPM system (Galcon Dynamic Pressure Management System).

## Configurable Modes of Operation:

- **Pressure - Flow:** The controller will adjust the pressure according to the measured flow using a preset programming table. Pressure is thus constantly adjusted based on real demand.

- **Pressure - Time:** Water pressure is regulated throughout the day according to a preset time table. This allows different pressures to be obtained based on predicted water usage during the day. Different policies can be set up for any day of the week.
- **Exception Dates:** Specific days can be selected for different pressure routines (for example, allows anticipating different flow during holidays).

## Main Features & Benefits:

- Internal battery is sufficient for up to 5 years of operation (depending on usage).
- Upstream and downstream analog pressure sensors.
- Easy to operate on site with the LCD display and programming buttons.
- Remote connectivity and management with external application via local PC or GPRS modem.
- Logging of up to 400,000 readings in a non-volatile memory.
- Highly durable and reliable IP68 enclosure; ideal for extreme humidity and temperature conditions.

## Specifications:

### Inputs & Outputs:

#### Analog pressure sensors:

- 2 X analog pressure sensors 0-5 V.
- Pressure range 0-20 bar.

#### Analog input:

- 1 analogue input isolated 0-5 V.

#### Digital input:

- 1 dry contact digital input for flow meter.
- For connecting digital switch for logical condition operation.

#### Solenoid outputs:

- 2 constant pulse 12V solenoids for pressure setting.
- 1 latch 12V solenoid for overriding pressure reducing mode.

**Alarm output:** Digital output to signal alarm.

**Memory:** Non-volatile memory with logging capacity of 400,000 readings.

**Sampling frequency:** Reading sampling from 1 second to 24 hours.

**Real time clock:** Internal real time clock.

## Operation Modes:

- **Pressure - flow:** Setting downstream pressure according to water demand (flow).
- **Pressure - time:** Setting downstream pressure according to estimated demand in different parts of the day.
- **Exceptional days:** Preset days programmed for different pressure routine.

## Communication:

RS232 communication port connecting to local computer or PDA and to bi-directional GPRS modem.

## Physical:

- **Dimensions:** H 260 X W 160 X D 100 mm.
- **Casing:** Aluminum IP68.
- **Operating temp.:** -10° to +70° C (14° to 158° F).
- **Display:** LCD display with 5 programming buttons.
- **Power:** 7.2V internal lithium battery or 12V external lithium battery.