

ControlMate 2

Pressure control unit

ControlMate II is a low cost controller that enables the pressure into a zone to be switched between two pre-set values ("low" and "high") according to the demand (flow rate) or the time of day. This often achieves immediate and dramatic water savings and enables the PRV to be controlled reliably and safely.

The unit has been redesigned by HWM to incorporate a range of new features including recessed buttons, clear labelling and external battery packs to extend operational life further.



Key Features and Benefits

- **Easy usability:** Self-contained and easy to use
- **In-built pulse unit:** Failure (zero flow) detection and automatic response
- **Pressure management benefits:** Cost effective even in small zones
- **Immediate water savings:** Often simply on day/night setting
- **Optional battery pack:** Optional external battery
- **Upgraded recessed buttons:** Protect against damage from dirt
- **Easy installation:** Clear labelling on connectors and panel enable easy installation
- **Fully Waterproof:** The IP68 rating has been tested at 10 m depth over a 24 hour period
- **Flexible:** Compatible with Hydraulic Actuator

Applications

The ControlMate range can be supplied with a brass Hydraulic Actuator used as the interface between the electronic controller and the hydraulic PRV. This leads to very accurate and repeatable control of the PRV outlet pressure.

In two point pressure control applications, the two required pressure settings are mechanically set and locked on the Actuator. The outlet pressure of the main PRV cannot be outside of these values. This means that failure of electronics, incorrect operation by the user, burst or frozen pipes cannot cause closure of the main PRV.

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Sensor Input options

Sensor type	Inbuilt pressure transducer 0-16 bar as standard, but other ratings are available on special request. External transducers optional.
Accuracy	Typically - 0.2% of full-scale range Pressure connection: Quick-fit nickel plated brass connector and push-fit 6mm connector

Flow Channel

Sensor type (pulse input)	Solid state PD10, LRP, PSM or any other form of volt-free pulsed signal
Input frequency	0-100Hz pulse input, requiring minimum mark 10ms, minimum space 10ms
Connector	10-pin military specification, to IP68

Logger Features

Battery	Fully-sealed internal lithium batteries with expected operating life of 5 years or more. External power pack available to extend battery life.
Operating Temperature	-15°C to +60°C, must avoid freezing water connections
Memory Capacity	120kbytes scrolling memory with storage for 60,000 values
Dimensions	354.H x 181.W x 98.D mm (13"H x 7.1"W x 3.8"D).
Construction	Die cast aluminum housing with handle
Weight	4.3kg
Ingress protection	IP68
Channels	2 pressure + 1 flow
Power	Lithium battery operational for 5 years under typical operating conditions.
Logging interval	10s, 30s, 1min, 5min, 15min, 60min
Display Type	2 line x 16 character backlit super-twist

Communication and programming

Local interface	Sealed local display, with 2 push-button switches
Infra-red communication	Ultra-high speed 20kBaud link via I/R probe to standard RS232 port on PC or multi-communication link for PAKNET, GSM, radio, etc.
Telemetry	Connector for multi-communication options: BABT-approved internal modem SMS/GSM/GPRS communication available via ControllerCom add-on



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