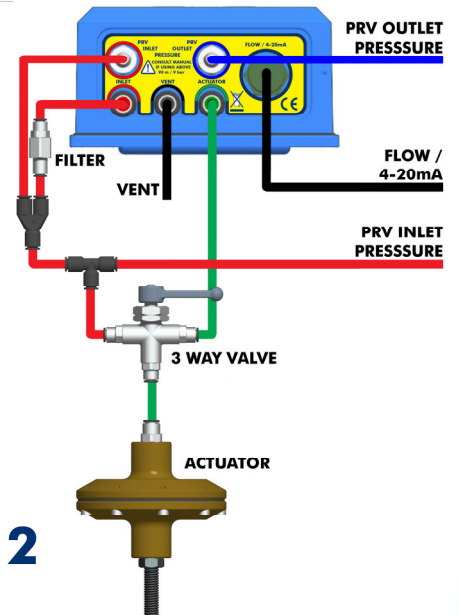


## Pressure Management System

Pressure control is the simplest and most immediate method of reducing leakage. However, without electronic control, a PRV (Pressure Reducing Valve) must be set up to ensure a guaranteed minimum pressure to the critical (usually highest) point in the network under "worst case" maximum flow conditions. During periods of lower flow, this set up leads to higher pressures than are necessary.

Active pressure management using PRV controllers enables pressure to be optimized with changing demand. ControlMate 2 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.

ControlMate 2 is easy to use, self contained and is powered with a replaceable five year battery. The unit has been redesigned by HWM to incorporate a range of new features including recessed buttons, clear labeling and external battery packs to extend operational life further.



## ControlMate 2

FLOW MEASUREMENT DATA LOGGING LEAK DETECTION PRESSURE CONTROL ENVIRONMENTAL MONITORING



### KEY BENEFITS

- Self contained and easy to use.
- New Design in proven IP68 case
- Time and flow modulation capability
- In-built low pressure detection with auto response
- In-built pulse unit failure (zero flow) detection and automatic response
- Pressure management benefits realised cost effectively, even in small zones.
- Immediate water savings, often simply on day/night setting.
- Time and flow modulation capability.
- In-built low pressure detection and automatic response.
- In-built pulse unit failure (zero flow) detection and automatic response.
- Compatible with Hydraulic Actuator.
- GSM/SMS/GPRS comms available.
- Internal replaceable five year battery
- Optional external battery pack available to extend operational life.
- Recessed buttons protect them from damage caused by dirt.
- New labeling on the connectors and display panel enable easy installation and clearer data interpretation.

USER  
FRIENDLY  
DESIGN

HIGH  
ACCURACY

5 YEAR  
BATTERY  
LIFE

REALTIME  
DATA



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**+852 3746 9033** or visit  
[www.alliedpower.com.hk](http://www.alliedpower.com.hk)

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### Display Type

2 line x 16 character backlit super-twist

### Communication & 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: BAPT-approved internal modem  
 SMS/GSM/GPRS communication available via ControllerCom add-on

### Pressure Channel

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

### Data Storage

Channels: 2 pressure + 1 flow (additional flow optional)  
 Memory capacity: (120kbytes scrolling memory with storage for 60,000 values)  
 Logging interval: 10s, 30s, 1min, 5min, 15min, 60min  
 Sampling interval: As above but independent of logging interval  
 4-20mA flow input as standard

### Power Source

Battery type: Fully-sealed internal lithium batteries with expected operating life of 5 years or more.  
 External power pack available to extend battery life.

### Operating Environment

Temperature: -15°C to +60°C, must avoid freezing of water connections  
 Operating pressure range: Depends on configuration, but the maximum downstream pressure not to exceed 90m

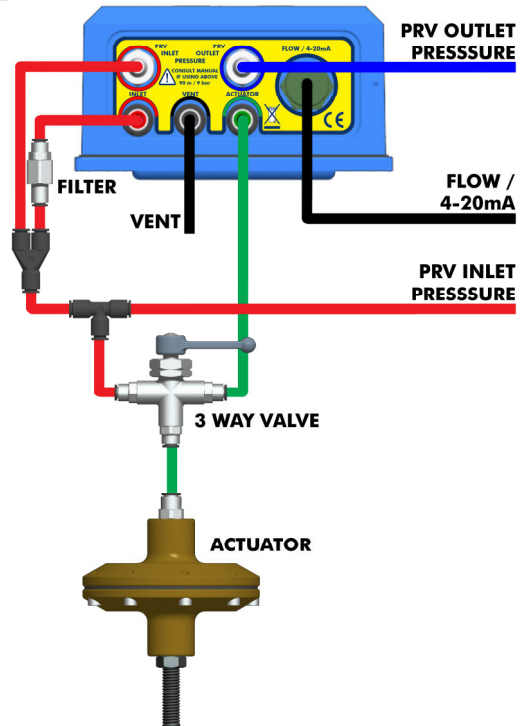
### Physical Characteristics

Construction: Die cast aluminum housing with handle  
 Dimensions: 354mm x 181mm x 98mm  
 Weight: 4.3kg  
 Protection: to IP68



The ControlMate range of PRV controllers are supplied with a brass Hydraulic Actuator used as the interface between the electronic controller and the hydraulic PRV. The device is fitted in place of the adjusting screw of the standard pilot on the PRV. To adjust the PRV outlet, the ControlMate progressively extends or retracts the moving "rod" of the actuator in small steps under closed loop control.. 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.

*For more details, please refer to the HWM Hydraulic Actuator Datasheet.*



## ControlMate 2

*HWM reserves the right to change any product specifications without prior notice.*