CLEAN WATER

Pegasus +
Pressure control system

Pegasus+ is a sophisticated and highly versatile pressure control system with integral 2 way GPRS communications.

The Pegasus+ has the capability to set target pressures by time, flow or a combination with different table settings per day of the week. This combined with intelligent extrapolation between target points means a sophisticated level of targeted control can be achieved even on a time basis.

Key Features and Benefits

- **Intelligent pressure control:** Proven to minimise leakage and reduce the frequency of pipe bursts.

- **Modulated control:** Gives great flexibility to modulate pressure according to demand throughout the day.

- **Multi-point time based PRV:** Control without flowmeter

- **Pressure failsafe**: Set by default to an acceptable output pressure.

- **Flexible:** 3G version available

- **Latching solenoids:** Can fully open or close the valve against settings in the controller response to extreme or emergency situations.

- **Integrated low cost GPRS:** Enables rapid (almost real-time) monitoring and remote control as required

- **Secondary logging channel:** Enables one second fast logging for analysis of events and transients.

- **Tablet or PC based App:** Allows easy set up and programming functionality.

Applications

Pegasus+ uses a Tablet or PC based App for easy set up and programming, and is compatible with the HWM Online web viewer for easy and convenient access to data via the internet.

In addition Pegasus+ PC software provides full automatic closed loop operation, including multiple CP's auto-learning, alarm functions and auto updates to 5 minute intervals if required.

Closed loop functionality can be used in flow and time based modes. Tables on Pegasus+ software can be set for 96+ values of flow/pressure or time/pressure

MONITORING ASSETS, DELIVERING DATA, BRINGING CONTROL

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Sensor Input Options

2x Digital	2x Uni- or bi-directional pulse. Count or Event Logging modes
2x Analogue inputs	Internal Pressure Transducer. 0-20 bar / 0-200 metres head / 0-300 psig, accuracy ±0.1%
	External Pressure Transducer (volt) or Transmitter (mA). 0-20 bar / 0-200 metres head / 0-300 psig, accuracy ±0.1% -
	Option 4-20mA from isolated sensor, or 0-1v, 1-5v, or 0-100mVolt.
3 x Solenoid Outputs	1x Latching Solenoid output , operates top chamber to vent or close.
	2x Pulsed Solenoid outputs, up/down control.
	Up to 2500 solenoid firings per day, then automatically applied error default, to minimise the risk of depleting batteries unnecessarily

Communications

GPRS	Can upload data to customer's FTP site or HWMs proprietary UDP mode for low data cost and improved comms reliability in marginal signal areas (requires HWM Data Gate connection or HWM software to be installed on customer's system).3G Compatible modem supporting 850 900 AWS 1700,1900,2100
Serial	RS232 interface for programming and interrogation with PC/Laptop or PDA/Tablet using Radwin software. Programmable up to 19,200 b.p.s
PSTN	Optional integral PSTN modem

Controlling Features

Summer/Winter	Clock is programmable for seasonal time changes (if applicable)
Time Based Control	Up to 32 table entries with auto extrapolation in between. On or Off times programmable for the following groups: 7 individual days per week, Week Days, Weekend, and Every Day.
Flow Based Control	Flow based control , or Flow override option
Fail Safe	Default Fail Safe can be configured to "Set" or "Release" the latching solenoid upon error (e.g. faulty sensor / No flow)or revert to time profiles if flow fails or revert to fixed pressure (operator selected).

Logger Features

Frequency	1 – 59 seconds, 1 – 59 minutes, 1 – 24 hours settings independent for primary and secondary channel.
Logger ID	Up to 8 alphanumeric characters
Site ID	Up to 127 alphanumeric characters.
Clock	On board 24 hour real time clock with date facility.
Ingress protection	IP68 fully submersible
Dimensions	315H x 153W x 87D mm (12.4"H x 6.0"W x 3.4"D).
Construction	Aluminium alloy casing.
Weight	Approx 3.5kg
Operating Temp	-20 to +70°C (-5 to +160°F)
Ingress protection	IP68 submersible
Power	Lithium-thionyl chloride cell operational for 5 years under typical operating conditions
Alarms	16 Alarms per logger. Each with 16 character comment field. Can auto dial up to 16 telephone numbers, 1 per alarm. Threshold and profile alarms.
Memory	Primary recording 179,760 readings. (Cyclic or Block).

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