

Regulo Pump Controller

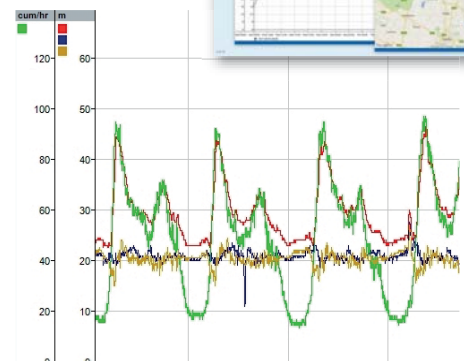
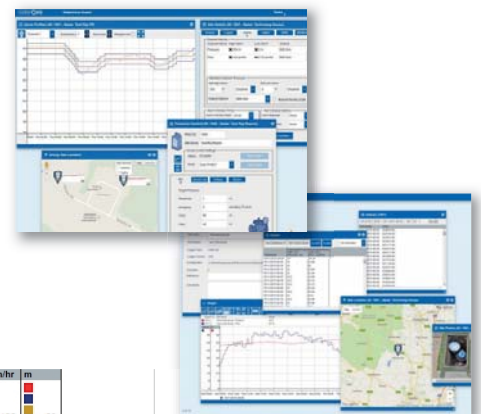


An innovative solution for the calming of water networks and the reduction of leakage, burst frequency and energy usage through intelligent pump control.

The Regulo Pump Controller modulates the outlet pressure (set point) of a pump by making fine adjustments to the input signal of the variable frequency drive. Multiple control options are available with full remote configuration of downstream pressure profiles.

Key Features

- Provides optimised calmer network pressures
- Prolongs the expected life of a distribution network, reducing capital expenditure
- Flow, time and advanced closed loop control supporting real-time feedback from Cello data loggers installed at critical points
- No central server necessary
- Integral multi-channel data logger
- Remote profile configuration
- Easily wired directly into pump control panel
- Battery or externally powered
- Advanced channel profile and threshold alarms
- Remote monitoring and control through locally deployed PMAC software or web based WaterCore platform
- Optional support for UK Water Industry Telemetry Standard (WITS) protocol





Technical Specifications

Operating Modes	<ul style="list-style-type: none">- Fixed Pressure- Time Profile- Flow Modulation- Closed Loop
Pressure Input	Input range: 0-100m, 0-200m; 0-10bar, 0-20bar; 0-150 PSI, 0-300 PSI +/- 0.5% accuracy / resolution
Digital Inputs	<ul style="list-style-type: none">- Pulses counted over, and recorded at, preset intervals
Modem	Quad band: 900MHz, 1800 MHz / 850MHz, 1900MHz <ul style="list-style-type: none">- Integral antenna. Optional external antenna
Data Transmission	Type: 2G frequencies (SMS or GPRS) Interval: 1 min to 1 day at programmable <ul style="list-style-type: none">- WITS option (factory configured)- External power option
Serial Port	Type: Full duplex, asynchronous Data rate: 1200, 2400, 4800, 9600, 19200, 38400 bps
Memory	Size: 128K, allocatable between channels as required (max 64k per channel) Type: Solid state, non-volatile
Clock	Type: Crystal controlled calendar clock with leap year adjustment Accuracy: 100 seconds per monthly maximum error over operating temperature range Synchronisation: Option to synchronise clock to GSM network
Supply	<ul style="list-style-type: none">- User replaceable internal battery pack, up to 2 year life- User replaceable external battery pack, up to 6 year life- External 4.5-14V supply
Recording	Interval: Programmable between 1 second and 1 hour Data storage: Rotating store or store until full <ul style="list-style-type: none">- Max/min statistical recording of outlet pressure
Alarm Dial-Out	<ul style="list-style-type: none">- High/low threshold and profile alarms- Option to update data more frequently after an alarm
Environmental	Operating ambient temperature: -20°C to +50°C Ingress protection classification: IP68 (submersion at 1m depth for > 24 hours)
Mechanical	Dimensions (mm): 279/293 (h) x 149 (w) x 100 (d)