



TECHNOLOG



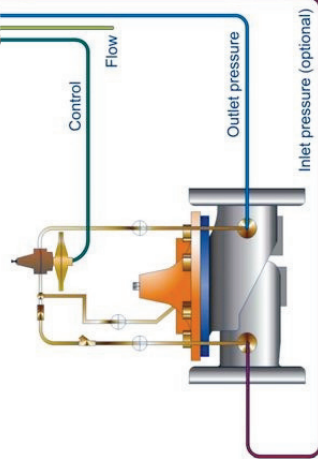
Regulo – SMS/GPRS Electronic PRV Controller

- Fully integrated GSM / SMS / GPRS Advanced Electronic PRV Controller
- Builds on Technolog's expertise in Advanced Pressure Control
- Flow, time, closed loop and advance self-learning control methods
- Simple, easy to install system
- Remote data transmission at preset intervals
- Remote configuration of logging and control parameters
- Hydraulic-less control, no filters required
- "Data on the web" option
- Battery powered with option to connect external power source
- Threshold & profile alarms
- Internal diagnostic logging of PRV control

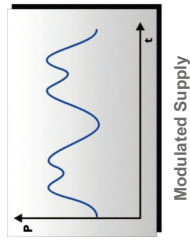
Regulo is an Advanced Pressure Controller. It controls the output of a Pressure Regulating Valve (PRV) according to a preset control method. Regulo incorporates Technology's proven Cello GSM technology, which allows remote data transmission and 'over the air' control parameter configuration.

Regulo modulates the outlet pressure of a PRV. It controls the PRV in one of four methods:

- **Time Control:** outlet of PRV adjusted according to a preset daily or weekly time profile
- **Flow Control:** outlet pressure modulated according to demand
- **Closed Loop:** outlet pressure adjusted according to real time feedback from Cello at the critical point
- **Self-Learning:** critical point pressure from Cello is used to automatically generate a control profile. In the event that the CP pressure falls outside preset limits, alarm messages from the CP Cello are used to correct the PRV outlet pressure



Regulo uses Technology's patented method of control. In the event of loss of control pressure, the PRV reverts to its preset fail safe outlet pressure.



Modulated Supply

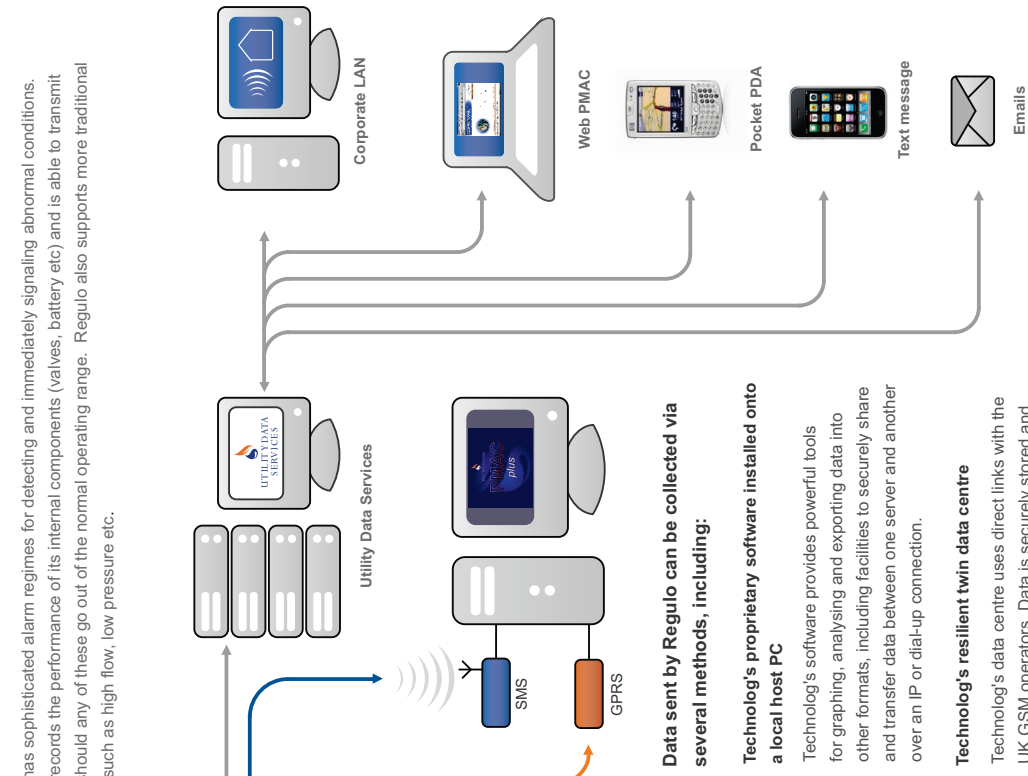
Critical Point (CP)



Regulo's data logging and control parameters are easily setup using the PC or PDA setup software.



Stable Critical Point Pressure



Regulo has sophisticated alarm regimes for detecting and immediately signaling abnormal conditions. Regulo records the performance of its internal components (valves, battery etc) and is able to transmit alarms should any of these go out of the normal operating range. Regulo also supports more traditional alarms, such as high flow, low pressure etc.

Data sent by Regulo can be collected via several methods, including:

Technology's proprietary software installed onto a local host PC

Technology's software provides powerful tools for graphing, analysing and exporting data into other formats, including facilities to securely share and transfer data between one server and another over an IP or dial-up connection.

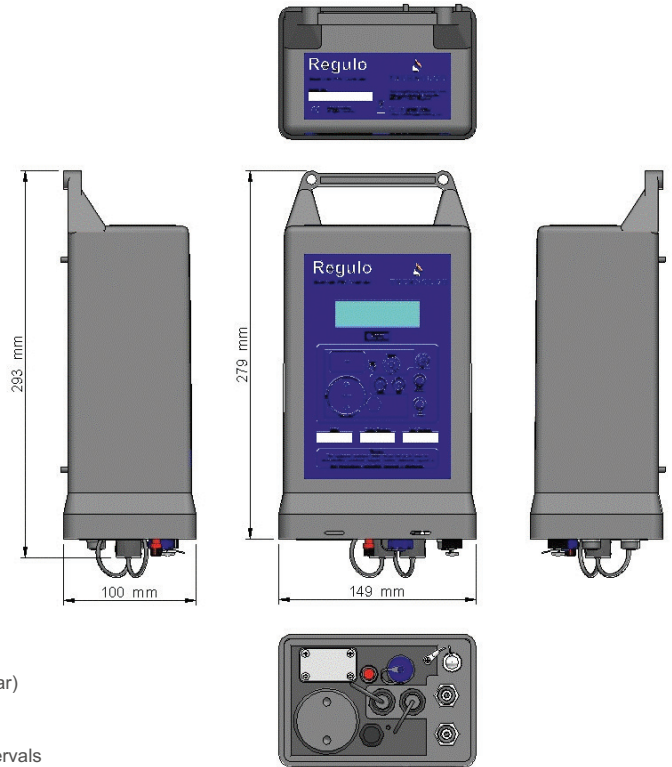
Technology's resilient twin data centre

Technology's data centre uses direct links with the UK GSM operators. Data is securely stored and then passed onto the user's corporate network or made available via the web.

Regulo alarms can be forwarded to the relevant field support staff by text message or email.

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Technical Specifications



- Operating Modes** ----- Fixed Pressure
 Time Profile
 Flow Modulation
 Closed Loop
 Closed Loop, Self-Learning
- Pressure Inputs** ----- Input range: 0-100m (0-10bar) or 0-200m (0-20bar)
 +/- 0.5% accuracy / resolution
- Digital Inputs** ----- Pulses counted over, and recorded at, preset intervals
- GSM Modem** ----- Quad band: 900MHz, 1800 MHz / 850MHz, 1900MHz
 Integral antenna. Optional external antenna
- Data transmission** ----- SMS or GPRS. Half hourly, hourly, daily, weekly or monthly at programmable time and date
- 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 Type** ----- 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** ----- Recording interval: programmable between 1 second and 1 hour
 Data storage: Rotating store or store until full
 Max/min statistical recording of outlet pressure
- Alarm Dial-Out** ----- High/low threshold and profile alarms
 Option to update data more frequently after an alarm
- Environmental** ----- Operating ambient temperature: -20°C to +50°C
 Protection classification: IP68 (submersion at 1m depth for > 24 hours)

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