

Modulo One

Electronic Pressure Controller



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Reducing pressure in water distribution systems is a proven technique for reducing leakage and the frequency of bursts.

Conventionally, pressure reduction is achieved by a Pressure Reducing Valve (PRV) which delivers a fixed outlet pressure to the system.

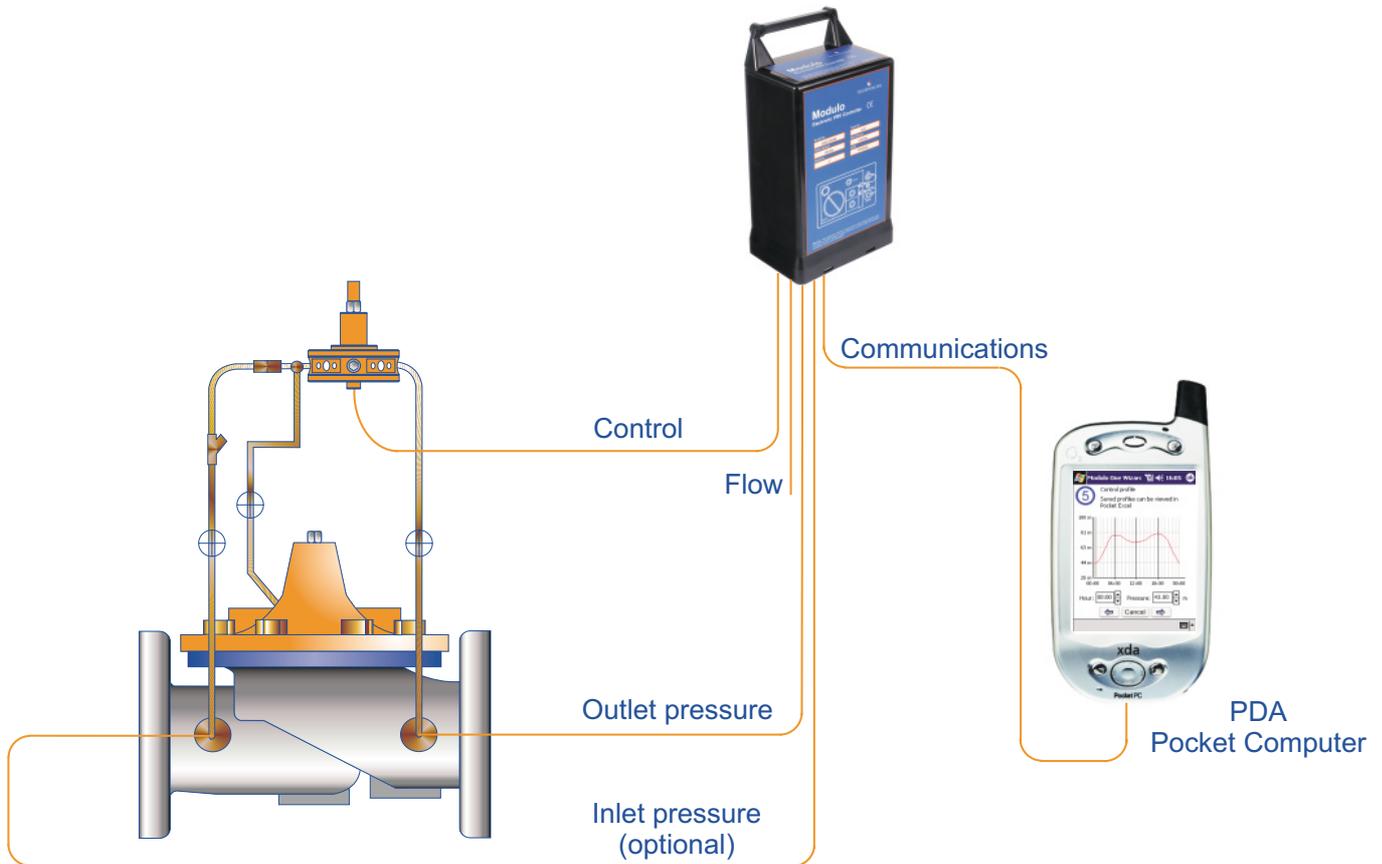
The Modulo One is a 'hydraulic-less' electronic controller that compensates for "headloss" downstream of the PRV and reduces night time pressure.

Solenoid valves and filters used in conventional pressure controllers affect system reliability. Modulo One does not use solenoid valves or filters. It offers significantly higher reliability and can be used in situations where conventional systems would fail.

Modulo One requires only two connections to the PRV and is easily set-up using the "Modulo Wizard" on a hand-held PDA.



- Electronic pressure controller and data logger
- No solenoid valves
- No filters
- Time or flow profile operating modes
- Internally powered - 3 year battery life
- Data logging of inlet pressure (optional), outlet pressure and flow
- Easy installation and set up via PDA hand-held computer
- Optional remote communications modules



Operating Modes	Manual control: maintains manually entered outlet pressure Time profile: changes outlet pressure with respect to time Flow modulation: modulates outlet pressure with respect to flow
Control	Control resolution: 0.5% of full scale
Inputs	PRV inlet pressure (optional), built in sensor, 6 mm pushfit fitting PRV outlet pressure, built in sensor, 6 mm pushfit fitting Flow (optional pulse input), 3 way socket
Serial Port	4 way socket, connects to handheld PDA computer
Data Logging	Parameters: PRV inlet and outlet pressure, range 0-100 m or 0-200 m +/- 0.5% F.S. accuracy/resolution) Flow, pulse input, 10 Hz max frequency Memory: 32 k non-volatile
Battery	Main battery: user replaceable Life: Typically 3 years
Environmental Protection	IP68, 0.5 metre for 12 hours

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