


XiLog^{eco}

Remote data logger powered by water pressure

...powered by  CLA-VAL

XiLogEco is a remote and sustainable data logger which is powered by a turbine driven by a pressure differential. It facilitates a high resolution of data, through more frequent data transmission and sample intervals. This can be achieved without regular visits to site to replace the battery, and therefore minimise the impact upon the environment. Our logging capability enables users to access current and in-depth network data without compromising performance.

Benefits

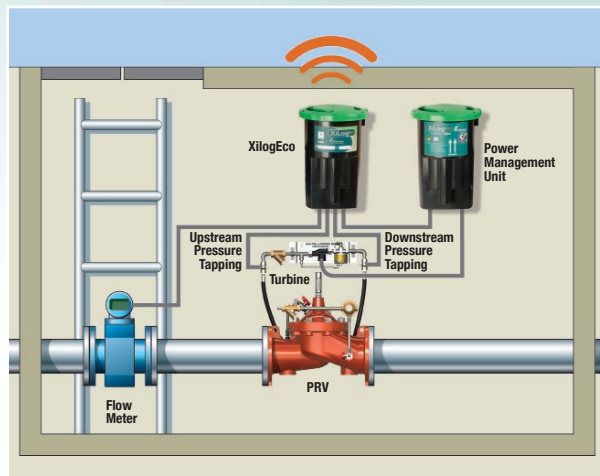
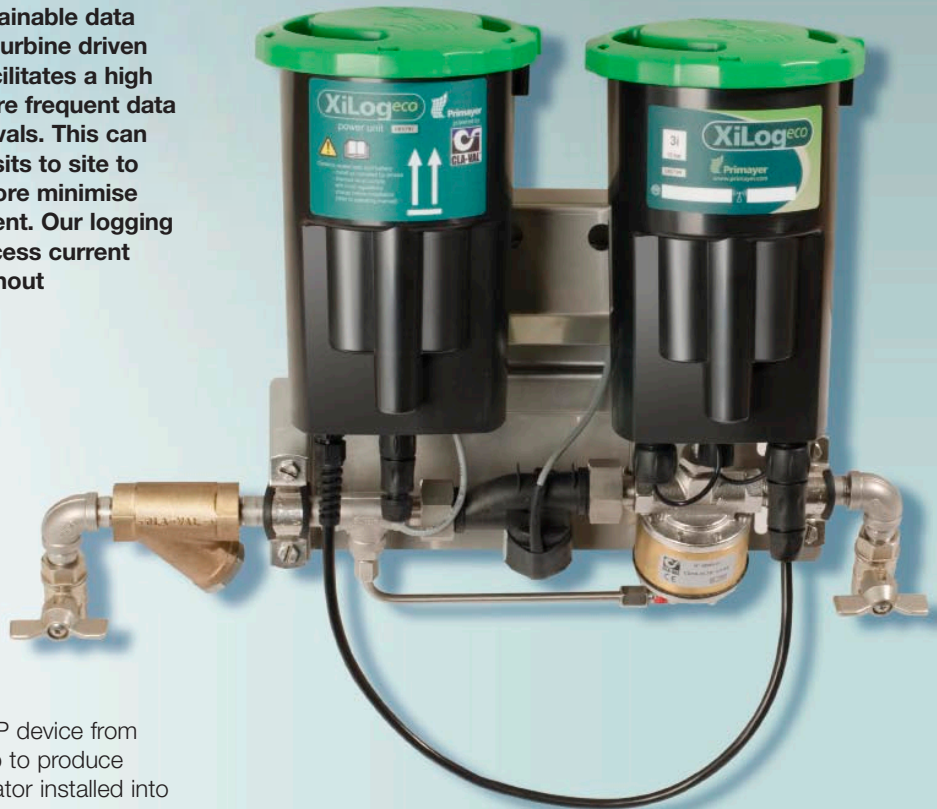
- Regular 15 minute data transmission
- Environmentally friendly
- Minimises site visits
- Hi-tech below ground antenna for data reliability
- Sophisticated alarms

How it works

XiLogEco utilises the e-Power MP device from CLA-VAL and uses pressure drop to produce power. This is an electrical generator installed into a by-pass on a pressure reducing valve, or other valves, where a minimum of six metres differential pressure is available. The differential pressure across the generator is controlled by a pilot which thus controls the electrical power output from the generator. The generator output is fed to a rechargeable battery via a charge management system. The battery stores power to allow uninterrupted operation of *XiLogEco* in times of diminished differential pressure. The constant source of power allows the possibility of data transmission, of one second samples, as often as every fifteen minutes.

Applications

- PRV performance
- District/zone flow monitoring
- Boundary valve monitoring





Features

XiLogEco operates with two internal pressure transducers and one bi-directional flow input. It has all the features that our *XiLog+* range has to offer, which includes:

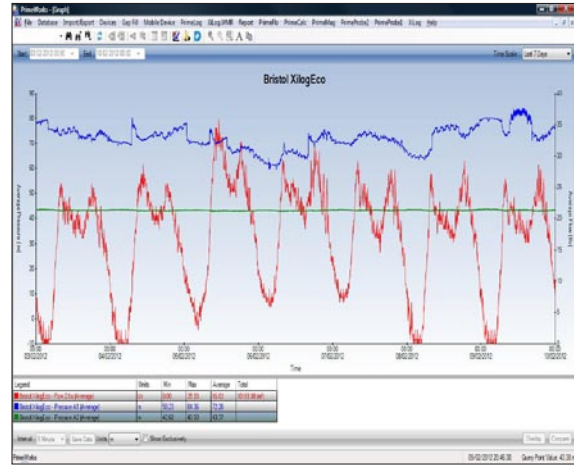
- Compatible with a wide range of flow sensors
- Excellent Pressure accuracy of 0.1%
- Event and Interval (1second to 24 hours) logging
- Logs min, max, average and total
- 2Gb memory
- Robust and submersible to IP68



Alarms

Alarms to PC or mobile phone, features include:

- Alarm exceeding threshold (+ deadband)
- Profile alarms (high/profiles may be defined independently)
- Alarm on change-of-state



Bristol Water PRV case study showing 30 second samples sent every 15 minutes

Communications

XiLogEco can be configured at any time to use GPRS or SMS remote communications, as its SIM card is easily accessible on site. Its state of the art underground antenna enables it to perform in isolated locations. To aid its performance in areas with poor network coverage, an external antenna option is available.

- Quad Band (850/900/1800/1900 MHz)
- Synchronise to GSM network (optional)
- GPRS to FTP: using XiLog Messaging Service (XMS) or to end user FTP server
- SMS: using XiLog Messaging Service (XMS) or to end user's modem
- High speed local USB communication

Part Numbers

XiLogEco complete system (range 20 Bar)	NXG 233
XiLogEco without e-Power MP turbine assembly (range 20 Bar)	NXG 232

Detailed XiLog+ product features are available separately. Other pressure ranges available on request.



Primayer Limited

Primayer House, Parklands Business Park
Denmead, Hampshire PO7 6XP, United Kingdom
T +44 (0)2392 252228 F +44 (0)2392 252235
E sales@primayer.com
www.primayer.com



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