PrimeLog

Advanced data logger for water network surveys

PrimeLog+ is a small, robust and submersible battery powered data logger designed to meet a wide range of applications. Available in single and dual channel variants; it is ideal for network modelling applications with ±0.1% accuracy. Combined with its 2Gbyte of memory, it enables logging of a higher resolution and provides excellent reliability of data. Its advanced features make it an indispensable tool for any analyst**.**

Features

- **Compatible with all common flow meters**
- **Rapid USB local communications**
- **Large 2Gb memory (500 million readings)**
- **Interval and event logging**
- **Logs minimum, maximum and average values**
- **Waterproof and submersible to IP68**
- **Battery life 5 years (in majority of applications)**

XAP Display

Portable USB display for use with all *XiLog+* data loggers, provides on-site information.

- Current value for each channel
- Last minimum daily flow
- Site name
- Logging interval
- Battery level

Reservoir depth

Network pressure

Flow metering

Borehole level

PrimeWorks

Open channel flow

Rainfall

Overflow detection

Primayer

technology for network management and leakage control

Applications

Network modelling It is a precise tool for network modelling; it has a pressure analogue accuracy to ±0.1% (FS) and multiple loggers can also be programmed / downloaded through its rapid USB local communications or USB hub saving considerable time.

District and zone metering Compatible with all common flow meters *PrimeLog+* can be used where telemetry loggers are not installed to provide an indication of leakage within a zone.

Pressure management and pipeline pressure testing For accurate pressure data the auto-calibration facility and ±0.1% (FS) accuracy are ideal. Logging can be carried out at one second intervals
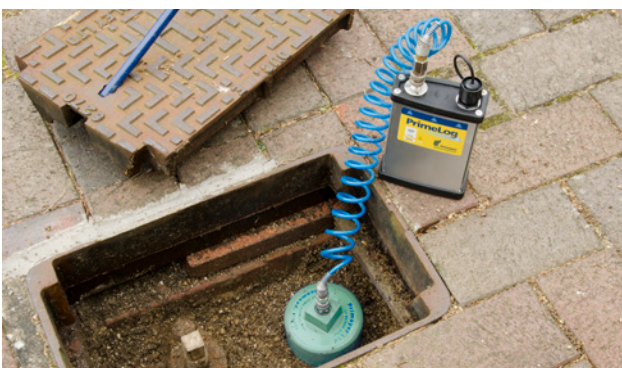

Commercial and domestic consumption The meter index value is programmable into the logger. This, together with its compact size for installation in small chambers, makes it ideal for demand estimation.

Reservoir and borehole depth A range of external pressure/depth sensors are available to help manage water resources.

Rainfall The event logging feature together with the large memory enables *PrimeLog+* to record for years before the memory is full making it suitable for long and remote deployments.

Open channel flow It's flexibility to operate with a variety of sensors enables the *PrimeLog+* to be used for depth and velocity measurement. It can then be converted into a flow rate using the comprehensive PrimeWorks software.

Flow

The flow input has the ability to log 2 uni-directional or 1 bi-directional flow. This feature enables the merging of combination meter values, regardless of different calibration factors, for each meter. It can also register the meter index value so that daily volumes can be acquired. A wide range of mechanical, electromagnetic and ultrasonic flow meters are compatible, such as those from:

- Arad
- ABB
- Sensus
- Khrone
- Elster
- Siemens
- Actaris
- Isoil
- E&H

Pressure/Depth/Analogue

PrimeLog+ 1P and 2i have an internal pressure transducer. The *PrimeLog+* 2 has an analogue channel that can accept a range of electrical inputs or external transducers (shown below) to meet a number of applications.

Depth Transducers	0 - 0.35 mBar, 0 - 1 Bar
Pressure Transducers	0 - 1 to 0 - 25 Bar
Current Inputs	0 - 10, 4 - 20 mA
Voltage Inputs	0 - 1, 0 - 5, 0 -10 V

Event Logging

PrimeLog+ has the capability to log the time when an event pulse is received and thus the time between pulses. Typical examples of event logging include rainfall and overflows.

PrimeLog+ variants

Models	1F	1P	2	2i
Bi-directional flow channels - *uni-directional flow channels in ()*	1(2)	-	1(2)	1(2)
External pressure/depth sensor, mA or V input	-	-	1	-
Internal pressure transducer	-	1	-	1

Products

PrimeLog+ 1F	**NXG 401**
PrimeLog+ 1P	**NXG 402**
PrimeLog+ 2	**NXG 403**
PrimeLog+ 2i	**NXG 404**
XAP Display	**NXG 880**

Please refer to Price List for pressure range options.