



Water network data logging with 3G, GPRS and SMS communications

XiLog+ is an advanced range of data loggers with remote communications options. It is available in single to nine channel models for use with a wide variety of sensors for clean and waste water network monitoring. Data is available via *PrimeWeb*.

Features

- One, two, three and nine channel models
- High performance state-of-the-art below ground antenna
- Data available 'on-line'
- Data transmission down to every 15 minutes (needs external power)
- Profile alarms with separately defined high and low profiles
- Wide range of sensors and high accuracy
- 10 year battery life (defined conditions) with high capacity double battery
- Robust and waterproof to IP68



Network hydraulic data available on Google Maps*



Water network on-line data access



- 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

Data Transfer

Loggers may be configured to use 3G/GPRS or SMS remote communications for periodic reporting. Transmission period can be set from 15 minutes to 24 hours. The state-of-the-art antenna enables *XiLog+* to operate from below ground in most locations. In areas of poor cellular coverage external antenna options are available. Local data transfer via USB.

Logging

Flexible logging memory and configuration;

- Memory size; 2 Gbyte
- Measurement interval; 1 second - 24 hour
- Logs at different intervals on same input
- Logs daily minimum, maximum and totals
- Event logging

Applications

- District flow, leakage and consumption monitoring
- Pressure monitoring
- PRV performance
- Reservoir / bore-hole depth
- Rainfall
- Overflow detection
- Open channel flow measurement





Flow

The flow input can log two uni-directional flows or one bi-directional flow. Also, both outputs from combination meters can be logged on one logger input channel. Existing meter index value can be entered at start of logging.

Pressure/Depth

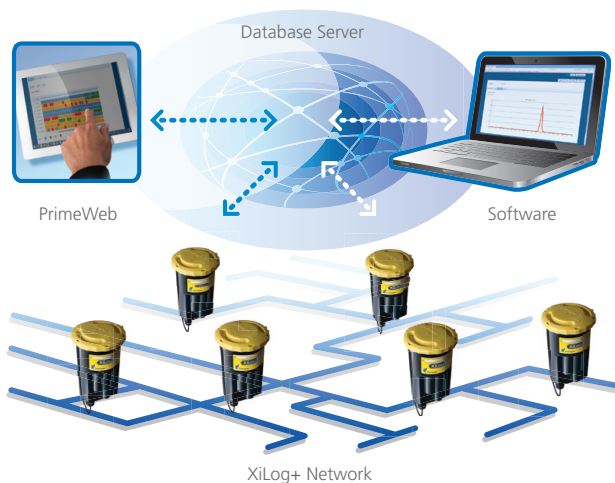
Accuracy is to $\pm 0.1\%$ (of full scale). The offset of the transducer is corrected by an *Auto Zero* facility. Some *XiLog+* models are available with internal pressure transducers and other variants will accept a range of external pressure and depth transducers.

Level and Open Channel Flow

Open channel flow velocity is measured using a Doppler sensor connected to the *XiLog+2W*. This sensor also measures depth. The level in open channels, reservoirs, weirs, boreholes, etc, can be measured using ultrasonic or radar sensors connected to the *XiLog+2* and *XiLog+2W*.

Multiple applications

The *XiLog+9* model has multiple flow (pulses), voltage and current inputs for flexible use.



Models

It should be noted that each model below is available as GPRS, 3G/GPRS and 3G (USA) variants and also with multiple antenna options.

| Models | 1F | 1P | 2 | 2i | 2W | 3i | 9 |
|--|------|----|---|------|---|------|--|
| Inputs | | | | | | | |
| Bi-directional flow (uni-directional flow channel) | 1(2) | - | 1(2) | 1(2) | - | 1(2) | 2(4) |
| Analogue | - | - | 1x Voltage (inc. external pressure transducer) or 1x mA | - | 1x Voltage (inc. external pressure transducer) or 1x mA | - | 4x Voltage (no external pressure transducer) 3x mA |
| Internal pressure | - | 1 | - | 1 | - | 2 | - |
| RS485 Modbus RTU for Nivus KDO Doppler and Krohne Waterflux 3070 | - | - | - | - | 1 | - | - |

Events

- Rainfall - 0.1, 0.2, 0.5 mm/tip
- Overflow - time/period of tank or reservoir overflow

Alarms

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



Products

| | |
|---------------------------------|---------|
| XiLog+ 1F | NXG 201 |
| XiLog+ 1P | NXG 202 |
| XiLog+ 2 | NXG 203 |
| XiLog+ 2i | NXG 204 |
| XiLog+ 2W (no SMS comms option) | NXG 206 |
| XiLog+ 3i | NXG 205 |
| XiLog+ 9 | NXG 301 |

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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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LIT-XL+-044-4.1