

# XiLog+

## Data Logger with GPRS / SMS Communication

**XiLog+ series is a new range of remote data loggers available from Primayer. Every logger can be programmed for GPRS or SMS communications. It is available in single to nine channel models for use with a wide variety of sensors for clean and waste water network monitoring.**

### Features

- One, two, three and nine channel models
- High performance state-of-the-art below ground antenna
- Data transmission down to every 15 minutes (needs external power)
- Contact the logger as required
- Profile alarms with separately defined high and low profiles
- Wide range of sensors and high accuracy
- Powered for up to 5 years (depends upon sensors and configuration) + external battery and mains powered options
- Robust and waterproof to IP68
- SIM easily fitted on-site

### Data Transfer

All loggers may be configured to use 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 GSM/GPRS coverage an external antenna option is available.

### 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



### XiLog+Mini

For installation into smaller underground chambers the *XiLog+Mini* is available as both a single channel flow and single channel pressure logger. The *XiLog+Mini* has an external antenna.

### 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
- Sitename
- Logging interval
- Battery level

### Applications

- Flow - district and zone monitoring, leakage detection, consumption monitoring
- Network modelling
- Pressure monitoring
- PRV performance
- Reservoir / bore-hole depth
- Open channel flow measurement
- Rainfall
- Overflow detection



Water network on-line data access



technology for network management and leakage control

Primayer

Models	1F	1P	2	2i	2W	3i	9
Bi-directional flow channels - uni-directional flow channels in ()	1(2)	-	1(2)	1(2)	-	1(2)	2(4)
Analogue channels	-	-	1	-	1	-	4 x Voltage, 3 x mA
Internal pressure channels	-	1	-	1	-	2	-
RS485 interface (Nivus protocol)	-	-	-	-	1	-	-

### 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.

### Events

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

### 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*.

### Alarms

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



### Multiple applications

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

### Communications

- Modem quad-band (850/900/1800/1900MHz)
- GPRS to FTP
- SMS using *XiLog* Message Service or direct to end user modem
- High speed local USB



### Part Numbers

XiLog+ 1F	NXG 201
XiLog+ 1P	NXG 202
XiLog+ 2	NXG 203
XiLog+ 2i	NXG 204
XiLog+ 2W	NXG 206
XiLog+ 3i	NXG 205
XiLog+ 9	NXG 301
XiLog+Mini 1F	NXG 501
XiLog+Mini 1P	NXG 502
XAP Display	NXG 880



### 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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