

XiLog[®]

Telemetry data logger with SMS communication

XiLog is a telemetry data logger which operates via GSM cellular radio using the Short-Messaging-Service (SMS). It is available in single, dual or four channel models for use with a wide variety of sensors for monitoring water networks

- Operation independent of telephone lines and power supplies
- Optional deployment below ground
- Interrogate *XiLog* to obtain current data values of flow, pressure, depth, etc
- Supplied with in-built air-time (if required)
- Five year battery life (under defined conditions)
- Mains powered version available
- Submersible to IP68

Flexible operation

XiLog communicates by sending text (SMS) messages to a computer. Giving high flexibility *XiLog* has two modes of operation:

- **Routine data transfer:** *XiLog* is pre-programmed to send daily text messages to a host computer. These messages contain the logged data such as flow, pressure or depth, etc.

XiLog can also send outgoing alarm messages to a PC or mobile telephone.

- **Communication as required:** In addition *XiLog* has the capability to be contacted from a PC. This enables the user to obtain current data values.

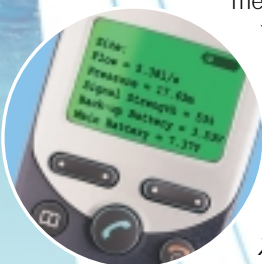
Easy installation and use

The use of text messaging means that a much lower cellular radio signal is required. This, together with a special aerial design, enables *XiLog* to operate from below ground in many locations. For operation in areas of poor GSM coverage an external antenna can be fitted.



XiLog installed in Atlas box

XiLog installed on underground hydrant



Reporting, graphing, database and export from PrimeWorks

Benefits

- Up-to-date information onto your computer
- Access to data from anywhere and anytime via the *PrimeWeb* internet service
- Simple underground installation
- Ability to contact logger when required
- Daily and window alarms
- Control of operational costs

Selection guide

Model	1F	1P	2i	2P	2	4i	4
Total number of channels	1	1	2	2	2	4	4
Number of bi-directional flow channels	1	-	1	-	1	2	2
Number of analogue channels (transducer, voltage or current input)	-	-	-	-	1	-	2
Number of internal pressure channels	-	1	1	2	-	2	-
Pressure/Analogue channel accuracy (%)	-	±0.5/±0.1	±0.1	±0.5	±0.1	±0.1	±0.1

Logging and communications

XiLog operates on GSM networks at frequencies 900/1800MHz. An optional external antenna version improves reception in areas of poor radio signal.

Logging mode	Cyclic
Logging interval	15 minutes
Data memory - standard - enhanced	125 days per channel More than 1 year/channel
Channels	Independent on/off Transmission on/off
SMS	Daily update
Local RS 232	19200 baud
Local read-back	Defined data

Pressure inputs

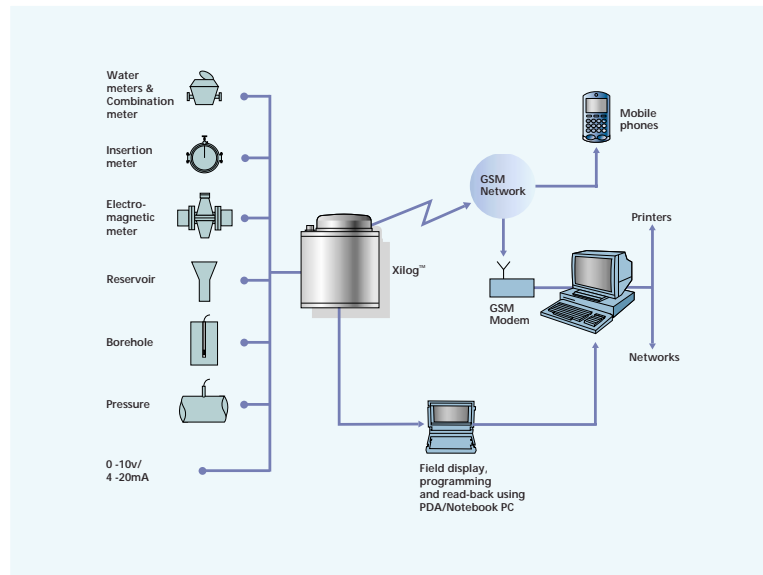
XiLog with internal pressure transducer (models 1P, 2P, 2i and 4i) can be supplied as 10 or 20 Bar pressure ranges.

Analogue inputs

XiLog models 1A, 2, 4, analogue options:

Depth transducers	0 - 0.35, 0 - 1 Bar
Pressure transducers	0 - 1, to 0 - 25 Bar
Current inputs	0 - 10, 4 - 20 mA
Voltage inputs	0 - 1, 0 - 5 V, 0 - 10V

SIM card is very easy to fit via small top cover



Flowmeter (digital) inputs

XiLog has bi-directional flow inputs and operates with the following flowmeters:

Manufacturer	Pulse Unit Type
Elster	LRP, HRP, PG100, BPG20, PSM, MSM
Sensus	K505R, K510, RO1.1, RD01 OPTO 06, OD07
Actaris	Model S, Model TLOS, Cyble LF, Cyble HF
ABB	Magmaster, AquaProbe Aquamaster

Battery life

XiLog battery life is five years with daily message transmission only. Use of alarms or standby mode (for immediate response to incoming messages) will reduce battery life. A mains powered version is available.