

PrimeLog®

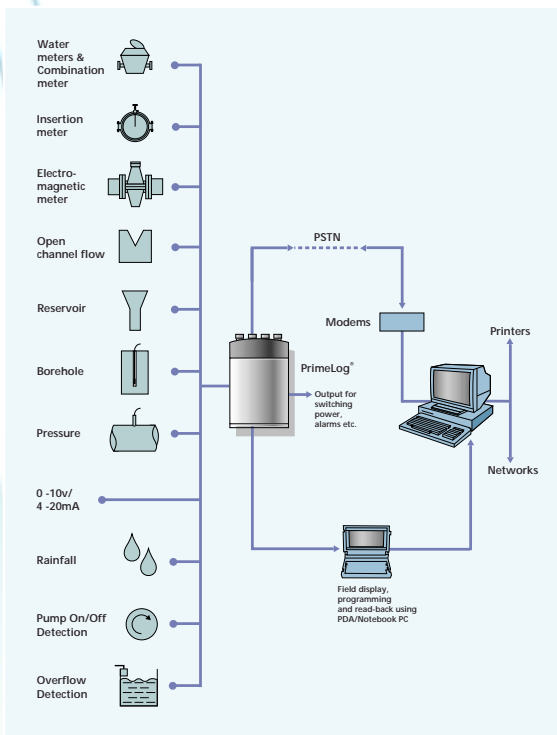
Data logger system

PrimeLog is a comprehensive data logger system for use in a wide variety of water industry applications. The *PrimeLog* range consists of single, two and four channel data loggers. Communication is via local connection to a PC or hand-held PDA. Remote communications alarm facilities are provided by telephone loggers.

Applications

One range of data loggers can be used for many water system applications, including:

- District, domestic and leakage flow-metering
- Hydraulic network analysis
- Pressure/PRV monitoring
- Rainfall
- Open-channel flow (weirs, etc)
- Reservoir and bore-hole depth
- Over-flow detection
- Functioning time of pumps



Digital (flow) interfacing

PrimeLog digital input is bi-directional and accepts flow inputs from a wide range of meters, including those from Elster (Kent), Sensus (Socam/Meinecke), Schlumberger (Actaris/Stream) and ABB.

The digital input also operates with a rain gauge, overflow detector for monitoring reservoirs or storm overflows, and also a sensor for monitoring the on/off times of pumps.

Pressure/Analogue channels

Accuracy is available to $\pm 0.1\%$ (of full scale). For optimum accuracy the offset of the transducer is corrected by the Auto Zero facility.

PrimeLog loggers with analogue inputs can accept external pressure or depth transducers for monitoring weirs, reservoirs, boreholes, etc; or a wide range of electrical signals. One logger can monitor many types of analogue signal.

Logger system features

- Interfaces to all common meters
- Digital channels are bi-directional
- Analogue channel accepts pressure, depth, voltage and current inputs
- High analogue accuracy; $\pm 0.1\%$
- Small, robust, submersible to IP68
- Powered for minimum 5 years
(PSTN version battery life depends on use)



AQUA TECHNOLOGY SOLUTIONS

Primayer

Selection guide

Standard PrimeLog model (no modem)	1F	1P	1A	2i	2	4i	4i
PrimeLog PSTN (with modem)	1FM	1PM		2iM	2M	4iM	4iM
Total number of channels	1	1	1	2	2	4	4
Number of bi-directional flow channels	1	-	-	1	1	2	2
Number of analogue channels	-	-	1	-	1	-	2
Number of internal pressure channels	-	1	-	1	-	2	-
Pressure/Analogue channel accuracy (%)	-	±0.5/±0.1	±0.1	±0.1	±0.1	±0.1	±0.1

Memory options

As standard a *PrimeLog* data logger is fitted with 128k RAM (for approximately one year of readings at 15 minute logging interval per channel). Optionally, 1Mb RAM can be fitted to extend logging capacity, typically required for very fast logging.

Logging and communications

Modes	Cyclic / start - stop / start - stop when full
Logging interval	1 second to 24 hours
Channels	All channels independently programmable
Readback	All data / defined data / data since last read
Local RS 232	19200 baud
PSTN modem	2400 baud full duplex (V22 bis)

Analogue inputs

PrimeLog loggers with analogue inputs (models 1A, 2 and 4) have the following sensor choices:

Depth transducers	0 - 0.15, 0.35, 1 Bar
Pressure transducers	0 - 1, to 0 - 20 Bar
Current inputs	0 - 10, 4 - 20 mA
Voltage inputs	0 - 1, 0 - 10 V

Pressure inputs

PrimeLog loggers incorporating an internal pressure transducer (models 1P, 2i and 4i) can be supplied with 10 or 20 Bar pressure ranges.

Digital inputs

All *PrimeLog* loggers operate with the following:

Manufacturer	Pulse Unit Type
Elster Meters	PSM, MSM, LRP, HRP, PG100, BPG20
Sensus	K505R, K510, RO1.1, RD01 OPTO 06, OD 07
Actaris	Model S, Model TLOS, Cyble LF, Cyble HF
ABB	AquaMaster, MagMaster, AquaProbe
Primayer	PrimeProbe, Overflow detector, Pump on-time sensor
Quadrina	MPT, MEP, QEP
Khrone	Electromagnetic meters
Endress + Hauser	Electromagnetic meters
Various	Combination meters, Raingauge



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