Lo Log LL™

INTRODUCTION

Lo Log LL is highly flexible yet simple and economical. Designed for portable use, it can be applied to virtually any data logging application in minutes.

Once installed, Lo Log LL can operate unattended until you need the data. It is ideal for harsh applications.

Lo Log LL is completely waterproof, submersible and battery powered. Lo Log LL requires no maintenance in service.

The on board battery will last for around 8 years in normal use.

Lo Log LL can be supplied with connection to 1 or 2 input for a wide range of instrumentation. Using a digital input, Lo Log can monitor flow meter pulses whether they are electronic or basic reed switch.

Lo Log LL can monitor 4-20mA analogue signals or can be fitted with an internal transducer to monitor pressure.

LoLogLL with Digital Flow input

or

LoLogLL with 4-20mA input

LoLogLL with Internal Pressure Sensor

Dual Channel LoLogLL with Internal Pressure Sensor and Digital Flow input

TYPICAL APPLICATIONS

Customer Metering Diagnostics
Lo Log LL can be quickly applied when it is necessary to carry out an urgent investigation. Programmed in minutes, Lo Log can be attached to any pulse output meter and will immediately start logging.

Demand Management Assessments
Lo Log LL is widely used to help planners assess demand in residential areas. Lo Log is small and light and fits easily in boundary boxes.

District Metering
Lo Log LL is highly economical and is well suited to connection to district metering where telemetry is not desirable or appropriate.

ADVANCED DESIGN

Lo Log LL is fully compatible with the acclaimed **Rad Log for Windows™** software.

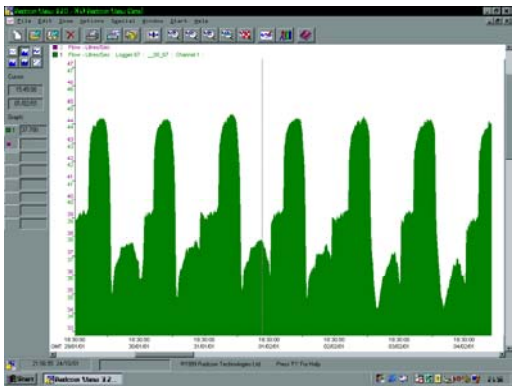
Rad Log is the industry standard package for data trending, reporting, analysis and archiving.

Rad Log can be used to programme all of the features of Lo Log LL. Once set up, Lo Log LL can be left unattended.

Data can be downloaded into a Psion Workabout™, laptop/notebook or directly into a desktop PC.

Once downloaded, the full power of Rad Log can be used to analyse and manipulate data. If required, Rad Log can 'stitch' data together to produce a contiguous archive of information from a single Lo Log LL.

Rad Log can perform functions on data such as summation and subtraction and will store the product as a separate data file.



Typical Rad Log display showing Lo Log LL data from a district meter.

data @ data @ data

Lo Log LL™

TECHNICAL DATA

Sensor Input Options	Digital	Uni- or bi-directional pulse. Reed switch contact closure type or other non powered sensors including Kent LRP & PU10 pulse heads, Aquamag/Magmaster
		Up to 64 pulses per second.
	Analogue	Internal Pressure Transducer 0-20 bar / 0-200 metres head / 0-300 psig, accuracy ±0.25%
		External Pressure Transducer (volt) or Transmitter (mA) 0-20 bar / 0-200 metres head / 0-300 psig, accuracy ±0.1%
		4-20mA from isolated sensor.
		0-1v, 1-5v, or 0-100mVolt.
Logging Features	Memory	Recording 16,000 readings in continuous (cyclic) operation. (memory expandable to 32,000 readings on request) Can be programmed to read continuously (cyclic mode) or for a specific period of time (block).
	Frequency	1,5,10,15,30 seconds and 1,5,10,15,30,60 minutes.
	Logger ID	Up to 4 numeric characters.
	Site ID	Up to 127 alphanumeric characters.
	Clock	On board 24 hour real time clock with date facility.
	Count & Event Logging Modes	Count and Event logging modes, with bi-directional capability
	Calibration	Totaliser calibration – tenths of litre per pulse
Communications	Serial	RS232 by Infra-red port for connection to Psion Workabout hand held programming and data collection unit, laptop PC, or desktop PC upto 9,600 Baud.
Physical	Dimensions	160H x 108W x 45D mm (6.3"H x 4.3"W x 1.8"D)
	Construction	Die-cast aluminium enclosure, powdercoat spray painted
	Weight	0.8 Kg (1.8 lb)
	Operating temperature	-20 to +70°C (-5 to +160°F)
	Ingress protection	IP68 submersible
	Power	Lithium-ion cell operational for 8 years under normal operating conditions. Warranted for continuous operation of up to five years. Data recoverable at factory with Low battery condition

R	D	L	5	1		L	/	i/p 1	i/p 2	/

1= 1 input
2= 2 inputs

0= no input
2= 0-1 volt input
3= external pressure
4= digital pulse
5= 4-20mA
6= internal pressure

Blank= Mil connector or int press
D= Depth sensor glanded to case

or

R	E	V	5	1	4	L	/	1

For single input flow only data logger
(small case LoLog PCB in larger LoLogLL case)

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