Lo Log DEPTH™

INTRODUCTION

Lo Log DEPTH is a single input data logger with vented external pressure transducer. The logger contains a special membrane to allow the pressure transducer to vent to atmosphere without letting water into the logger or transducer electronics.

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

The vented sensor glanded into the data logger makes the Lo Log DEPTH especially suitable for accurately monitoring shallow depths of water .

Lo Log DEPTH requires no maintenance in service. The on board battery will last for around 8 years in normal use.

TYPICAL APPLICATIONS

Environmental Investigations
Lo Log DEPTH can be quickly applied when it is necessary to carry out an urgent investigation. Programmed in minutes, Lo Log DEPTH can be setup to dynamically monitor levels in water and final effluent processes, where daily, weekly and monthly diurnal profiles are required.

Key Account Customer
Lo Log DEPTH is widely used where continuous auditing is required eg: Breweries, Tanneries, Dairies, Quarries, Chemical Process Plant etc.

Low Depth Applications
Lo Log DEPTH is accurate in shallow water due to its special transducer venting arrangements.

ADVANCED DESIGN

Lo Log DEPTH has an integral hydrophobic filter which allows the vented depth transducer to breath directly through the logger casing without compromising the waterproof integrity of the system.

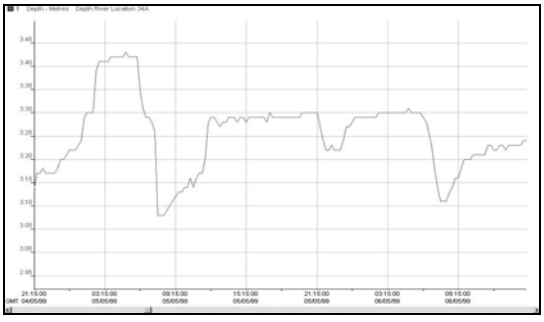
Lo Log DEPTH is fully compatible with the acclaimed **Rad Log for Windows™** software.

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

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 DEPTH data from a shallow water channel.

data @ data @ data @ data

Lo Log DEPTH™

TECHNICAL DATA

Sensor Input	Analogue	DRUCK External Pressure Transducer 0-0.5 bar / 0-1.0 bar / 0-2.0 bar, accuracy ±0.1% repeatability +/- 1.0mm with standard 10 metre vented cable (other cable length optional)
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 alphanumeric characters.
	Site ID	Up to 127 alphanumeric characters.
	Clock	On board 24 hour real time clock with date facility.
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 (Avoid submersion, pressure transducer venting required)
	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	1	L	/	3	0	/ DEPTH

Special notes:-

1. The pressure transducer cable is glanded through the Logger’s case.
2. The logger has an integral hydrophobic filter to allow venting of the pressure transducer.
3. The Pressure transducer cable length must be specified at time of quotation/order.

Radcom Technologies Ltd
32 Mount Pleasant Ind Park ● Southampton SO14 0SP ● UK
Tel: (0)23 80 682 300 ● Fax: (0)23 80 682 330
www.radcom.co.uk

Radcom Technologies Inc
150-L New Boston Street ● Woburn MA 01801 ● USA
Tel: 781 938 6663 ● Fax: 781 938 5553
www.radcom-usa.com

data @ data @ data