

LoLog 450

Single or Dual Channel Data Logger

LoLog 450 is a highly flexible and cost effective data logger. Completely waterproof, submersible and battery powered it is designed for portable use and can be supplied in single or dual channel variants. The analogue channel can be used for internal pressure, external pressure and 4-20mA. A digital channel is available for flow and status data. The dual option combines one analogue and one digital channel, or two analogue channels.

LoLog 450 incorporates a high level of features including Pulse Interval Timing to establish accurate recording of minimum flow. It can store up to 16,000 readings, which may be doubled when purchased with extended memory. A purchase option is also available for a single channel variant that uses optimal compression techniques to enable storage of up to 1,000,000 values depending on the variability of the data.

Typical Applications

Network Modelling

Available with 0.1% accuracy for network modelling applications. Please specify at order if required.

Customer Metering Diagnostics

Quickly attached to any pulse output meter to enable urgent investigation. Will immediately start logging.

Demand Management Assessments

The small, light logger fits easily into boundary boxes and is widely used to assess demand in residential areas.

District Monitoring

Highly economical and well suited to connection to networks where telemetry not desirable or appropriate.

PRV Logging

The 2 pressure channel variant monitors PRV performance.



KEY BENEFITS

- 5 year battery life in typical use.
- One or Two Channels
- Network modelling variant.
- Pulse interval timing for low flow applications.
- Internal or external pressure sensor, 4-20mA.
- Local data download, via Infra-Red interface into Laptop, PC or PDA.
- Expandable memory up to one million data values on single channel variant if purchased with optional compressed firmware.
- Fully compatible with Radwin and Radwin Lite software.
- Multiple logging modes including Cyclic logging, Stop when Full, Start and Stop and Event Logging.
- Rugged plastic case.
- Fully sealed & submersible, IP68.



Sensor Input Options	Digital	Uni- or Bi-directional pulse/status.
		Reed switch contact closure type or equivalent sensors including Kent LRP & PU10 pulse heads, Aquamag/Magmaster.
		Up to 64 pulses per second.
Analogue	Internal or External Pressure Transducer	
	0-20 bar / 0-200 meters head / 0-300 psig standard (other ranges are available) <0.2% FSD accuracy supplied as standard. Please note that <0.1% FSD accuracy available as optional enhancement if required. Please specify at order.	
	4-20mA from isolated sensor. Please note only one analogue channel can be 4-20mA	
Memory	Recording 16,000 readings in continuous (cyclic) operation. Unit can be purchased with optional extended memory to 32,000 readings. An optional compressed firmware version can enable storage of up to 1,000,000 data values depending on variability of data. Please note that the correct configuration must be ordered at the time of purchase as changes cannot be made after manufacture.	
Logging Features	Frequency	Sample Periods In 1 second increments from 1 to 60 seconds. Then 1 minute increments from 1 to 60 minutes. Then 1 hour increments from 1 to 24 hours
	Logger ID	Up to 7 alphanumeric characters.
	Site ID	Up to 127 alphanumeric characters.
	Clock	On board 24 hour real time clock with date facility.
	Logging Modes	Count and Event (PIT) logging modes Bi-directional capability
Communication	Serial	RS232 by Infra-red port for connection to a PDA hand held computer, laptop, or desktop PC 9,600 Baud.
Physical	Dimensions	115H x 67W x 35D mm (4.5"H x 2.6"W x 1.2"D).
	Construction	Rugged plastic enclosure.
	Weight	210g (0.5 lb).
	Operating Temp	-20 to +70°C (-5 to +160°F)
Ingress protection	IP68 submersible	
Power	Lithium battery operational for 5 years under typical operating conditions.	

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R = Radcom Firmware	W = Wessex Firmware	(Yellow IR disc indicating Wessex firmware)	1 = Single Channel	2 = Dual Channel	3 = External pressure input via 6 pin Mil connector	33 = 2x External pressure input via 6 pin Mil connectors	34 = 1x External pressure input via 6 pin Mil connector and 1x Digital Flow input via 4 pin Mil connector.	4 = 1x Digital Flow input (Reed Switch type) via 4 pin Mil connector	4G = 1x Digital Flow input (Reed Switch type) Glanded with 1.5 metre flying lead	4K = As 4 above plus Data Compression Firmware	46 = 1x Digital Flow input (Reed Switch type) via 6 pin Mil connector and 1x Internal Pressure Sensor	5 = 1x 4-20mA input via 4 pin Mil connector	5G = 1x 4-20mA input Glanded with 1.5metre flying lead	6 = 1x Internal Pressure Sensor	66 = 2x Internal Pressure Sensor

HWM reserves the right to change any product specifications without prior notice.

