Halma Water Management

MultiLog GPRS

GPRS Data Logger

Multilog is the proven Radcom multi-channel hardware platform with thousands of units installed worldwide. It has now been upgraded to include the benefits of advances in GPRS availability, and cost effective commercial rates.

MultiLog GPRS has up to four inputs for monitoring any combination of digital or analogue signals, and features an innovative '*secondary channel*' feature which enables an additional fast logging channel that can log down to one second intervals. This is invaluable when more detailed investigation (such as pressure spikes and 'true' minimum night flow) is required. The pseudo channel trace can be implemented to track max or min of the fast logging results. Previously, secondary channel logging could only be used as a manual direct download but lower GPRS data transfer rates have enabled HWM to make this available as a telemetry feature. The standard logging continues alongside the more intense logging for general reporting purposes.

Low power electronics enable the long battery life to be maintained even with increased transmission rates. The replaceable internal batteries will typically power the device for over five years when data is transmitted every eight hours. Three options of low cost external battery packs are available which enables this typical five year life to be maintained when transmitting data every hour, 30 minutes or even down to every 15 minutes.

Typical Applications:

District and Zone Monitoring
Ideal for monitoring flow, pressure and or water quality parameters to assess demand, leakage and conformance.

Network Analysis Investigations
Can be used to perform dynamic flow & pressure analysis of network models, particularly where hourly data updates can be useful for near real time monitoring.

KEY BENEFITS

- Integral GPRS modem telemetry.
- Up to 4-channel logging with two internal pressure transducers.
- Advanced fast logging *'secondary channel'* for logging to 1 second – as standard.
- Pseudo channel for true max and min flow and investigation of pressure spikes – as standard.
- Full alarm functionality including profile alarms.
- High performance external aerial for ease of deployment achieving best signal level.
- Can send data every 15 minutes and maintain up to a 5 year battery life when used with a low cost external battery pack.
- Local data download via 10 pin military plug into laptop, PC or PDA.
- Robust die cast alloy housing.
- Fully sealed & submersible, IP68.
- 5 year plus battery life under typical operating conditions.

LONG BATTERY LIFE | GPRS | FAST LOGGING OPTION | PORTABLE

FLOW MEASUREMENT DATA LOGGING LEAK DETECTION PRESSURE CONTROL ENVIRONMENTAL MONITORING

Palmer environmental | HYDREKA www.hydreka.fr | RADCOM TECHNOLOGIES LTD

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Sensor Input	Digital	Uni- or bi-directional pulse. Instrument powered or non-powered sensors eg PD100.
		Up to 128 pulses per second.
	Analogue	Internal Pressure Transducer
		0-20 bar / 0-200 metres head / 0-300 psig, repeatability ±0.1%.
		External Pressure Transducer (volt) or Transmitter (mA)
		0-20 bar / 0-200 metres head / 0-300 psig, repeatability ±0.1%
		4-20mA from isolated sensor
		0-1v, 1-5v, or 0-100mVolt
Logging Features	Memory	Primary recording 48,720 readings. Can be programmed to read continuously (cyclic mode) or for a specific period of time (block).
		Secondary recording 6,144 readings.
	Frequency	15 minute sample rate, other settings available on request.
	Alarms	Optional Alarms sent by SMS. Minimum or maximum threshold alarm with persistence factor per channel. 7 Alarms per logger. Each alarm out comment field 16 characters. Can be programmed to auto dial up to 4 telephone numbers on alarm.
	Logger ID	Up to 8 alphanumeric characters – can be programmed with GIS number. Also readable factory set serial number in firmware
	Site ID	Up to 127 alphanumeric characters.
	Clock	On board 24 hour real time clock with date facility.
	Secondary Channel	Can be programmed to record either fast data, average minimum, average maximum or time interval between pulses (for data smoothing).
	Logging Modes.	Count and Event logging modes.
Communication	Serial	RS232 by MIL connector for connection to Rad Link hand held programming and data collection unit, laptop PC or desktop PC. Programmable upto 19,200 Baud.
	GPRS Communications	GPRS to FTP site using HWM DataGate or customer specific FTP, multiple messages per day.
	SMS (Text) Comms	SMS message transmitted on Alarm.
	GSM (Data) Communications	If SIM card is enabled for GSM service, Office PC can establish real time communications with Logger for reconfiguration etc;
	Cellular Module	Quad Band Cellular modem (900, 1800, 850 and 1900 MHz) Optional power up time window to receive instructions by SMS
Physical	Dimensions	250H x 175W x 90H mm (9.9”H x 6.9”W x 3.6”D)
	Construction	Die-cast aluminium enclosure, powdercoat spray painted
	Weight	4.5 Kg (9.9 lb)
	Operating Temp	-20 to +70°C (-5 to +160°F)
	Power	Lithium Thionyl-Chloride cell operational for 5 years under standard operating conditions, complete with low battery alarm

Note: Typical battery life expectancy is based upon achieving network registration regularly and with ease. If the GPRS-enabled network registration is unachievable, the logger will convert to SMS-only operation and will attempt to re-establish GPRS communication every 24 hours. A signal strength test should be performed during installation.

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

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