Multi Log GSM™

INTRODUCTION

Multi Log GSM is the most versatile telemetry logger for applications where Telephone lines are costly or prohibitive. It can be supplied with up to eight inputs for monitoring any combination of digital or analogue signals.

Each input has a primary recording channel and secondary “fast sampling” channel and can be supplied in portable mode or with a telemetry link.

Multi Log GSM is completely waterproof, submersible and battery powered and will require no maintenance for at least five years.

A dual band (900MHz /1800MHz) GSM telemetry module, fitted internally, offers full coverage with most cellular communications network providers worldwide.

Full 2-way communications, 1-way dial out only or SMS versions are available.

Portable applications requiring periodic relocation can now have telemetry links to the office, without the need to have multiple telephone lines installed.

TYPICAL APPLICATIONS

District and Zone Monitoring
Multi Log GSM is ideal for monitoring flow, pressure and or water quality parameters to assess demand, leakage and conformance

Network Analysis Investigations
Multi Log GSM can perform dynamic flow & pressure analysis of network models together with the facility to investigate unusual events with “fast sampling”.

Key Account Customers
Multi Log GSM confirms levels of service and enables extra data to be provided to key customers, even in real time using telemetry links.

ADVANCED DESIGN

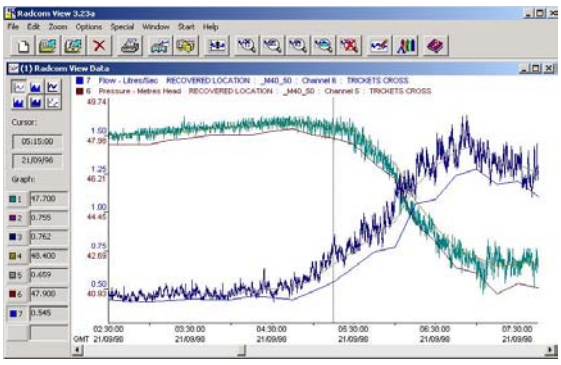
Multi Log GSM can be supplied with up to eight inputs of any type. Each input is logged in two channels; a primary channel and a secondary channel. Both channels can be programmed independently.

This enables, for example, the primary channel to be used for normal recording and reporting purposes while the secondary channel is used diagnostic purposes.

When monitoring pressure, the secondary channel can record transients that would be missed using conventional recording methods.

Alternatively, the secondary channel can be used to measure the time interval between flow meter pulses. This enables flow data to be interpolated to fixed time intervals and therefore ‘smoothed’ for analysis.

All of Radcom’s data loggers and controllers are compatible with **Rad Log for Windows™**, the industry-standard for data trending, reporting, analysis and archiving.



Typical Rad Log display showing primary and secondary channels from Multi Log GSM

data @ data @ data

Multi Log GSM™

TECHNICAL DATA

Sensor Input Options	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, 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	Primary recording 48,720 readings. (memory expandable to 245,280 readings on request) Can be programmed to read continuously (cyclic mode) or for a specific period of time (block).
		Secondary recording 6,144 readings.
	Frequency	1 – 59 seconds, 1 – 59 minutes, 1 – 24 hours settings independent for primary and secondary channel.
	Alarms	Minimum or maximum duration-triggered threshold alarm per channel. 16 Alarms per logger. Each alarm out comment field 16 characters. Can be programmed to auto dial up to 16 telephone numbers on alarm with telemetry option (ie 1 per 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).
	Count & Event Logging Modes	Count and Event logging modes independent for both recordings
Communications	Serial	RS232 by MIL connector for connection to Rad Link hand held programming and data collection unit, laptop PC or desktop PC. Programmable up to 19,200 Baud.
	Internal GSM modem	9,600 Baud 2-way Dual Band GSM Cellular modem, 900/1800MHz. Up to 8 Call out times/day for Downloads & Logger re-configuration 8 power up time windows for unscheduled calls (4 hours per day) Optional Pager wakeup to enable telemetry system at any time.
Physical	Dimensions	250H x 175W x 90D 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 temperature	-20 to +70°C (-5 to +160°F)
	Ingress protection	IP68 submersible
	Power	Lithium-ion cell operational for 5 years under normal operating conditions. Warranted for continuous operation of up to five years. Low battery alarm in data packet when downloaded.

R	D	L	6	6		L	/	i/p 1	i/p 2	i/p 3	i/p 4	/	

1= 1 input
2= 2 inputs
etc.. up to
8= 8 inputs

1= digital pulse input
2= 0-1 volt input
3= external pressure
5= 4-20mA
6= internal pressure

RCI = GSM, call during time window
RCIP = pager wakeup, call any time

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Due to our policy of continuous product development Radcom reserves the right to change specifications without notice.

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

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