Multi Log S GSM / SMSTM

INTRODUCTION

MultiLogS GSM / SMS is a very versatile telemetry logger for applications where Telephone lines are costly or prohibitive. It can be supplied in the small MultiLog case with up to two inputs for monitoring any combination of contact closure digital or analogue signals.

The GSM version has a primary recording channel and secondary "fast sampling" channel.

MultiLogS GSM / SMS is completely waterproof, submersible and battery powered and will require no maintenance for at least five years.

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

2-way communications options with SMS or GSM Data, both have comprehensive alarm capabilities.

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



TYPICAL APPLICATIONS

Levels of Service Monitoring

MultiLogS GSM / SMS confirms levels of service Pressure and/or Flow, and enables extra data to be provided to key customers.

District and Zone Monitoring

MultiLogS GSM / SMS is ideal for monitoring flow, pressure and or water quality parameters to assess demand, leakage and conformance

Network Analysis Investigations

MultiLogS GSM can perform dynamic flow & pressure analysis of network models together with the facility to investigate unusual events with "fast sampling".

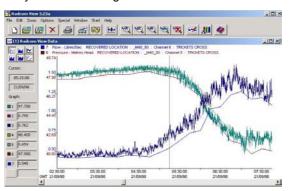
ADVANCED DESIGN

MultiLogS GSM / SMS can be supplied with up to two inputs of any type. This particular cellular logger has been designed to easily fit into a Typical Boundary Box by using the small MultiLog case. A 5 year battery life remains possible by limiting use to contact closure flow or Standard Radcom pressure sensors, and having a 1 hour/day reception Time Window on GSM/SMS telemetry.

For GSM loggers 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 for diagnostic purposes.

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

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.



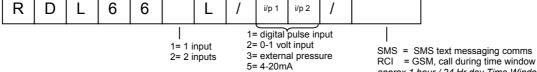
Typical Rad Log display showing primary and secondary channels from MultiLogS GSM / SMS



Multi Log S GSM / SMSTM

TE			A		$\overline{}$	A 7	- A
ΙE	CHI	NΙ	CA	\L	U	ΑI	ΓΑ

I ECHNICAL L	77 1 1 7 1						
	Digital	Uni- or bi-directional pulse. Contact closure type sensors only.					
Sensor Input Options (2 Inputs)	Digital	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%					
	Arialogue	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 for GSM version					
	Frequency	1 – 59 seconds, 1 – 59 minutes, 1 – 24 hours (SMS 15 mins) 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). GSM only					
	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.					
	SMS communications	Typically 1x SMS text message per day to transmit 1 or 2 channels of compressed data					
	GSM communications	9,600 Baud 2-way Dual Band Cellular modem, 900/1800MHz. 8 power up time windows for unscheduled calls (1 hour/day)					
	Dimensions	195H x 120W x 70D mm (7.7"H x 4.7"W x 2.8" D)					
	Construction	Die-cast aluminium enclosure, powdercoat spray painted					
	Weight	1.6 Kg (3.5 lb)					
Physical	Operating temperature	-20 to +70°C (-5 to +160°F)					
	Ingress protectio	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 /					



02/02/2004MLF

Due to our policy of continuous product development we reserve the right to change specifications without notice.

6= internal pressure

approx 1 hour / 24 Hr day Time Windows