Multi Log GPRS™

INTRODUCTION

Multi Log GPRS is an innovative cellular telemetry logger capable of downloading its data to a PC or centralised server, by sending an email directly from the logger. The receiving PC only requires an email account, either a local Outlook or a server based Exchange email account, and does not need a dedicated modem to collect data from loggers. No special email system is required.

Like our other cellular telemetry loggers it is suitable for applications where cabled Telephone lines are costly or prohibitive.

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

2-way communications: Emails can be sent from the logger. The logger can be configured to receive SMS instructions from the office PC or mobile phone. Alternatively a GSM link can be used.

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

TYPICAL APPLICATIONS

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

Network Analysis Investigations
MultiLogGPRS™ can be used to perform dynamic flow & pressure analysis of network models.

Key Account Customers
MultiLogGPRS™ confirms levels of service and enables extra data to be provided to key customers.

ADVANCED DESIGN

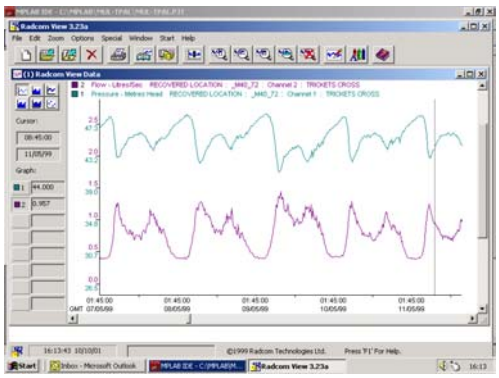
MultiLogGPRS can be supplied with up to four inputs of any type and has many features common to the popular MultiLog data logger.

The logger contains a SIM card to enable cellular telemetry. A “GPRS” enabled service typically permits high speed internet connectivity which is charged on the number of megabytes (MB) of data transmitted per month. It is possible for a logger to transmit 4 channels of data every hour and remain under the typical 1 MB monthly GPRS inclusive tariff.

Therefore a near SCADA type, relatively real time data can be obtained from a battery powered logger with upto a 5 year battery life.

Furthermore the office PC only requires a standard Outlook Email connection, and does not require a dedicated modem for data collection.

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 Flow and Pressure channels from MultiLogGPRS

Multi Log GPRS™

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	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).
	Frequency	15 minute sample rate (for hourly data download) 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.
	Count & Event Logging Modes	Count and Event logging modes
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.
	GPRS (Email) communications	Typically 1x Email per day to transmit 1 or 2 channels of compressed data at 15 minute sample rate
	SMS (Text) communications	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	2-way Dual Band Cellular modem, 900/1800MHz. Optional power up time window to receive instructions by SMS
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	/	GPRS

1= 1 input
2= 2 inputs
etc.. up to
4= 4 inputs

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

Radcom data

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