

# Multi LogPLUS™ to 16 Channels

## INTRODUCTION

**MultiLogPlus** is the most, advanced and flexible data logger with upto 16 input channels. This extended version of the popular Multi Log can be supplied with up to sixteen inputs for monitoring any combination of digital or analogue signals.

MultiLogPlus can be supplied in portable mode or with a telemetry link.

MultiLogPlus is completely water proof, submersible and battery powered and will require no maintenance for at least five years.

A telemetry link can be provided either by telephone line using an internal PSTN modem or by using the cellular communications network with an internal GSM modem.

Alternatively, portable MultiLogPlus units can be upgraded in the field to cellular communications with the addition of **Rad Net GSM**.



## TYPICAL APPLICATIONS

### *Environmental Monitoring*

MultiLogPlus is ideal for monitoring upto 16 channels of data to assess process or environmental conditions.

### *Analysis Investigations*

MultiLogPlus can perform typical dynamic flow & pressure analysis of network models using all 16 independent inputs signals.

### *Telemetry Cost Savings*

MultiLogPlus can save the cost of multiple telemetry links where upto 16 different analogue or digital signals are to be monitored.

## ADVANCED DESIGN

MultiLogPlus can be supplied with up to sixteen inputs of any type via separate connectors.

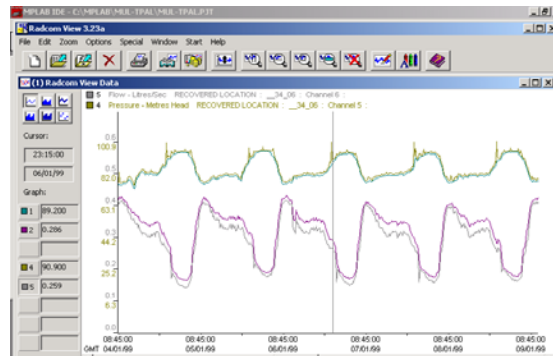
The input connectors are fitted to external pods, which are plugged into the logger's special serial ports via military connectors for IP68 sealing.

Each external pod can be fitted with up to 8 input channels. Along with a 2 serial port logger this provides monitoring for upto 16 input channels from a single data logger.

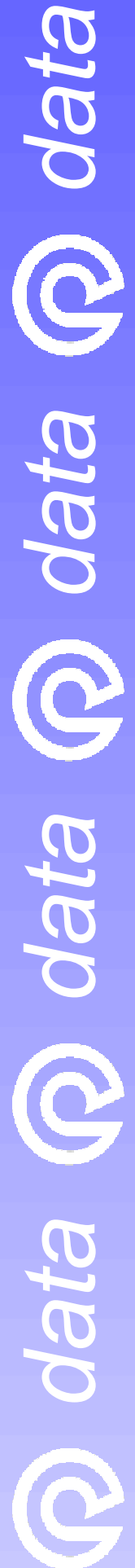
The external pods can be supplied in two versions (ie Digital or Analogue inputs). The analogue version can be fitted with Internal pressure sensors, External pressure or 4-20mA inputs via military connectors.

The complete system is typically supplied on a durable plastic mount board for easy installation.

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 from Multi LogPlus*



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## TECHNICAL DATA

Sensor Input Options	Digital	Uni-directional pulse input. Reed switch contact closure type or other non powered sensors including Kent LRP & PU10 pulse heads, Aquamag/Magmaster  Up to 64 pulses per second.
	Analogue	Internal Pressure Transducer 0-20 bar / 0-200 metres head / 0-300 psig, accuracy $\pm 0.25\%$
		External Pressure Transducer (volt) or Transmitter (mA) 0-20 bar / 0-200 metres head / 0-300 psig, accuracy $\pm 0.1\%$
		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	1 – 59 minutes, 1 – 24 hours
	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.
	Count Logging Mode	Count logging mode (Event mode not available with this version)
Communications	Serial	RS232 by MIL connector for connection to Rad Link hand held programming and data collection unit, laptop PC, desktop PC or Rad Net GSM telemetry unit. Programmable upto 19,200 Baud.
	Internal Modem (optional)	2,400 Baud Optional PSTN land line internal modem
	Internal GSM Modem (optional)	9,600 Baud 2-way GSM Cellular modem. <i>Also see MultiLogGSM or RadNetGSM data sheet for more information</i>
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			L	/	i/p 1	i/p 2	i/p 3	i/p 4	/	
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1= Portable  
2= PSTN modem  
6= GSM modem

5= 5 inputs  
to  
9= 9 inputs  
A= 10 inputs  
to  
G= 16 inputs

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

Blank = no GSM  
RCI = GSM, call during time window  
RCIP = pager wakeup, call any time

