

MEA115, MEA117 and MEA120 Data logger

MEA uses a number of data loggers in the MEA range of environmental measurement systems.

The product range comprises the 6004 Starlogger and 7001 Prologger. These data loggers are flexible, multi-channel loggers which can be used with a wide range of sensors. Their low power consumption makes them ideal for remote sites reliant on solar power.

The Starlogger and Prologger are robust, and easy to install, versatile and simple to operate. Data stored in the loggers can be downloaded by connecting a computer directly to the logger or by using a remote telemetry system or the GSM and NextG cellular phone network.



The Starlogger is available in basic form or with an optional with a keyboard and two line display. The Prologger has a four line display. The Starlogger has eight and the Prologger 16 analogue channels. Both loggers also have four counter channels plus SDI-12 and HSIO inputs.

The addition of the MEA2042 Sensor Field Station can extend the number of sensors which can be connected to these data loggers to over 200.

The data loggers are managed with Magpie software which is used to establish the data logging system operating parameters, and to display the downloaded data.

Specifications

	6004-11 Red Starlogger	6004-21 Blue Starlogger	7001-11 Prologger
Keyboard	N/A	Y	Y
Display	N/A	32 character Alphanumeric	64 character Alphanumeric
Memory	128 K CMOS RAM	128 K CMOS RAM	512 K CMOS RAM
Memory overwrite	Linear or circular (overwrite) logging		
Sensor input channels	Analogue	8, 10 bit resolution single ended	8, 10 bit resolution single ended
Analogue ranges	0-2.55V 0-255mV	0-2.55V 0-255mV	-5 to +5V -500mV to + 500mV -50mV to 50mV -5mV to +5mV
Counter	4 x 16 bit; 20kHz max		
Control inputs	2	2	2
SDI-12	1	1	1
HSIO (High Speed Input Output) Bus	1	1	1
Outputs	2	2	2
Communications	1 x RS232 communication port		
Scan rate	0.25 seconds to 5 minutes, programmable		
Time clock	Crystal regulated, +/- 10 seconds per month, set by computer		
Operating software	Magpie, Starlog 4 for Windows		
Instrument Voltages	5V regulated Switched battery	5V regulated	5V regulated, +/- 12V, +10V regulated
Internal battery	Alkaline or NiCad		