

# 6004-1

## STARLOGGER STANDARD



### MODEL D



Designed for trouble-free operation in a wide range of applications, the red Starlogger is a high performance, upward compatible replacement for the original Starlog portable datalogger. The red Starlogger is easy to program and offers wide signal capacity and range.

All Starloggers now feature eight, 10-bit resolution unipolar, single ended analogue channels, four, 16-bit resolution, counter/frequency channels and two, 16-bit, Starbus HSIO lines with eight channels each. Their memory capacity is 512kB CMOS RAM. They also provide two power sources for external instruments. Scan rates extend from 125 milliseconds to 5 minutes.

The red Starlogger uses standard asynchronous RS-232 serial communications to communicate with a laptop computer or a modem connected to a telemetry system.

Starloggers are completely portable and contain an internal battery supply good for one year of normal operation.

Starloggers are fully programmable using the Starlog V4 programming language.

## SPECIFICATIONS

PHYSICAL SPECIFICATIONS	
MATERIAL:	Rigid PVC, high impact
SIZE:	211mm x 108mm x 81mm (HxWxD)
WEIGHT:	2kg (including battery)
OPERATING TEMPERATURE:	-20°C to 60°C. Not affected by humidity
ELECTRICAL SPECIFICATIONS	
BATTERY:	6 x 1.5V industrial grade D size Alkaline battery pack 6910A (non-rechargeable)
BATTERY LIFE:	up to 1 year (based on daily schedule)
EXTERNAL POWER:	6V to 24V DC input available if required
INSTRUMENT POWER:	5V DC regulated supply (250mA max)
SDI-12:	SDI-12V 1.3 recorder (1200 baud smart instrument channel)

MODBUS:	Optional RS485 RTU Protocol, 19200 baud max, Functions 01, 02, 03, 04, 05/15, 06/16
I/O:	8 x analog inputs – 10 bit resolution unipolar single-ended Two programmable voltage input ranges: 0 to 2.55V, 0 to 255mV 4 x counter input – 16 bit/20kHz 1 x open collector output, 250mA maximum 1 x CMOS output 2 x HSIO bi-directional, 8 x 16 bit channels, synchronous data 1 x RS232C port / private leased line port Baud rates: 300/1200/2400/4800/9600/19200/38400.
INTEGRATED LOGGER SPECIFICATIONS	
STORAGE MEMORY:	Low power CMOS RAM 512k standard
TIME CLOCK:	Crystal regulated, +/- 10 seconds/month
SCAN RATES:	Programmable from 5 seconds to 5 minutes
LOG INTERVALS:	Programmable from 5 seconds to 24 hours
CPU:	80C552 microcontroller, 14.7456 MHz