

6004D Starlogger



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) analogue channels, four (16-bit) counter/frequency channels and two (16-bit) Starbus HSIO lines with eight channels each. Their memory capacity is now 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 an IBM personal 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 programming language.

Specifications

Material:	Grey, high impact, rigid PVC
Size:	211mm x 108mm x 81mm (HxWxD)
Weight:	2 kg (including battery)
Operating temperature:	-20 °C to 60 °C. Not affected by humidity
Scan rate:	0.125 seconds to 5 minutes - programmable
Log interval:	0.125 seconds to 1 week - programmable
Memory:	Low power CMOS RAM 512k standard
Time clock:	Crystal regulated, ±10 seconds per month
Analog inputs:	8 channels, 10 bit resolution on all channels single-ended Voltage input in two programmable ranges: 0 to 2.55V 0 to 255 mV
Counters:	4 channels, 16 bit resolution. DC to 20 kHz potential free contacts Accepts 0 to 12VDC digital inputs (0 to 1 threshold = 5V)
STARBUS:	2 x high speed serial lines with eight channels on each 16 bit, bi-directional, synchronous data and clock
SDI-12:	1200 baud instrument channel
Controls:	2 channels, 1 CMOS output 1 uncommitted open collector output.
Computer Input/Output:	Full duplex serial RS232C. Baud rates: 300/1200/2400/4800/9600/19200/38400.
CPU:	80C31 microcontroller, 14.7456 MHz
Battery life:	Alkaline 1 year (typical), or rechargeable NiCad
Flat battery shutdown:	5.6 Volts
Instrument voltages:	5V DC reg. 100mA, 6.5V unreg. 1 mA cont

6004D

- Accurate – 10 bit resolution
- Large memory capacity
- Long battery life
- Cost effective



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