Designed for trouble-free operation in a wide range of applications, the blue Starlogger is a high performance, upward compatible replacement for the original Starlog portable datalogger. The Starlogger is easy to program and offers wide signal capacity and range. The blue Starlogger 6004-2 also provides the user with a convenient 2 line by 16 character display and a keypad for communicating with the logger.

The blue Starlogger 6004-2 now features eight, 10-bit, analogue channels, four, 16-bit counter/frequency channels and two, 16-bit, Starbus HSIO lines with eight channels each and an SDI-12 interface. 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 blue 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.

### 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
- **LCD Type:** Supertwist (STN), yellow-green no backlight
- **Display Format:** Two lines x 16 Characters
- **Optimum Viewing:** 8 o’clock

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