

## Prologger Data Logger 7001D

- Very accurate 16 bit resolution
- Wide input signal range
- Large memory capacity
- 64 character display
- Long battery life
- SDI-12 support
- Cost effective

The Prologger 7001D is high capacity and high resolution data logger for demanding applications requiring very accurate measurement and data logging.

It is packaged in the same robust enclosure as the Starlogger range but with twice the accuracy, eight times the resolution, and sixteen times the dynamic range.

All Prologger analogue and digital inputs are processed with 16 bit resolution.

The sixteen inputs support the following ranges:

±5.000V (155uV/bit resolution)

±500mV (15.5uV/bit resolution)

±50mV (1.55uV/bit resolution)

±5mV (155nV/bit resolution)

The superior accuracy of the new design means that input voltages will be converted to better than 0.05% of full scale over the full operating temperature range, and 0.1% in the 5mV range.

The Prologger's large memory capacity means you can acquire more data or increase the period between downloads. The unit also includes all the familiar Starlog features such as SDI-12 instrument support, modem command /dial-out support, universal battery pack, continuous power source, scheme control of power supplies, and field upgradable control firmware. Modbus is supported using the 6543A Modbus interface. 4-20 mA inputs are supported and FTS accessory provides many interface options



## **Specifications**

Material: Grey, high impact, rigid PVC Size: 211mm x 108mm x 81mm (HxWxD)

2kg (including battery) Weight:

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 1Mb standard

Time clock: Crystal regulated, ±10 seconds per month Analog inputs: 16 channels, 16 bit resolution on all channels.

Unipolar or bipolar, differential or single-ended Voltage input in four programmable ranges: -5.00V to +5.00V, 155u V/bit resolution -500mV to +500mV, 15.5uV/bit resolution -50mV to +50mV, 1.55uV/bit resolution -5mV to +5mV, 155nV/bit resolution

4 channels, 16 bit resolution. Counters: DC to 20kHz potential free contacts

Accepts 0 to 12V DC 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: Up to ten SDI-12 sensors are supported.

SDI-12 Standard V1.3

Controls: 2 channels, 1 CMOS output. 1 uncommitted

open collector output

Full duplex serial RS232C. Baud rates: 300/ Computer Input/Output: 1200/2400/4800/9600/19200/38400/76800

CPU: 80C31 microcontroller, 14.7456 MHz

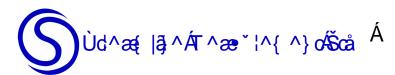
Battery life: Alkaline 1 year (typical)

Flat battery shutdown:

5.6 Volts Power: 5V DC reg. 100mA, 6.5V unreg. 1mA

cont.,10V DC reg. 100 mA prog. duty cycle (PDC), 12V DC unreg. 200 mA (PDC), -12V

DC unreg., 50 mA (PDC)



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