The Prologger 7001 is high capacity and high resolution datalogger 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 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 6543 protocol convertor. 4-20 mA inputs are supported and FTS accessory provides many interface options.

**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 (100mA max), 10V DC regulated supply (100mA max), ±12V DC unregulated 50mA

**SDI-12:** SDI-12V 1.3 recorder (1200 baud smart instrument channel) up to ten sensors

**MODBUS:** Optional RS485 RTU Protocol, 19200 baud max, Functions 01, 02, 03, 04, 05/15, 06/16

**INTEGRATED LOGGER SPECIFICATIONS**

**STORAGE MEMORY:** Low power CMOS RAM 1MB 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:** Four lines x 16 Characters

**OPTIMUM VIEWING:** 6 o’clock

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