7001
PROLOGGER

MODEL D

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.

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 (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

I/O:	16 unipolar single-ended or 8 differential x analog inputs – 16 bit resolution Four programmable voltage input ranges: -5V to +5V resolution: 155µV/bit -500mV to +500mV resolution: 15.5µV/bit -50mV to +50mV resolution: 1.55µV/bit -5mV to +5mV resolution: 155nV/bit 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 and clock 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 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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