

Newlog 3

Universal, compact data logger for recording analogue or digital signals from instrumentation. Ideally suited for local monitoring of industrial and commercial applications.

Provides a cost effective solution for multiple applications. Commissioning and downloading is easily undertaken on site via a PC or handheld device. A modem module may be added enabling remote access via the public switched telephone network (PSTN).

Key Features:

- Complimented by Technolog's software for graphical presentation of data
- Features up to 8 analogue or digital inputs
- Supports multiple recording strategies including: voltage, state, event, count, frequency inputs
- Programmable recording intervals
- Housed in a fully waterproof enclosure (IP68 to 2 meters)
- Internally powered > 5 years

Typical Applications:

- Water Industry: water quality parameters; sewer flow; rain gauging; river, reservoir and borehole water level; pump duty monitoring; low power telemetry...
- Others applications: energy management; meteorology; traffic counting; industrial plant monitoring; offshore and marine systems; pollution and environmental studies





Technical Specifications

Input	<p>Number of channels: 8</p> <p>Channel types: Voltage, event, state, count, frequency (independently selected on each channel)</p> <p>Input impedance: >300 kΩ</p> <p>Input protection: Protected against reverse connection and over voltage</p> <p>Voltage input: Range 0 to 2.5 volts, .01 volt accuracy and resolution</p> <p>Event input: Switch closure or logic pulse, date and time of event stored, resolution 1 second or 10 seconds</p> <p>State input: Switch closure or logic state</p> <ul style="list-style-type: none">– On state change, date, time and new state are stored, resolution 1 second or 10 seconds <p>Count input: Switch closures or logic pulses, maximum rate 10 per second (Counted over and recorded at preset intervals) 16,000 maximum per logging interval</p> <p>Frequency input: Switch closures or logic pulses, maximum frequency 16kHz, programmable sampling period of 1 to 250 seconds, independent of recording rate. Resolution 0.01% maximum</p>
Output	<ul style="list-style-type: none">– 2 independent digital outputs for transducer power control and alarm signalling (0 and 3 volt levels, active low, 100k output impedance)– 1 fixed output for 'open collector' signal bias (3 volts, 33k output impedance)
Serial Port	<p>Type: Optically isolated, full duplex, asynchronous</p> <p>Data rate: 1200/1200 baud transit/receive</p>
Memory	<p>Type: Solid state</p> <p>Size: 128K, allocatable between channels as required (max 64K/channel)</p> <p>Data retention: 5 to 10 years (ie. life of logger)</p>
Clock	<p>Type: Crystal controlled calendar clock, with leap year adjustment</p> <p>Accuracy: 100 seconds per month maximum error over operating temperature range</p>
Supply	<p>Life: Typical battery life 5 to 10 years depending on mode of use</p> <ul style="list-style-type: none">– Internally powered by single lithium cell, factory replaceable
Recording	<p>Recording interval: Programmable between 1 second and 12 hours</p> <p>Logging method: Time based or threshold logging</p> <p>Start/stop control: Local or remote control via serial port. Presettable start up to 1 month in advance</p> <p>Data storage: Rotating store or store until full</p>
Environmental	<p>Operating ambient temperature: -20°C to +50°C</p> <p>Ingress protection classification: IP68 submersible to 2 metres for unspecified period</p>
Connectors	<ul style="list-style-type: none">– 12-way input/output, 4-way serial port, compatible with MIL-C-26482
Mechanical	<p>Dimensions (mm): 160mm(l) x 75(w) x 55(h)</p> <p>Weight: 1 kg</p> <p>Mounting: Two fixing holes in base, tapped M4</p>