Newlog 4 IP

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Innovative Zone 0 ATEX approved battery-powered telemetry outstation integrating the latest two-way GSM & IP communications technology. Works with external battery packs and our unique Green Energy Module (GEM), so you can keep your device running on clean, renewable energy.

Handles higher sampling and transmission frequencies to power a wider range of smart applications where frequent data is critical. Building on the Newlog 4 platform, it adds integrated cellular communications, eliminating the need for external modems.

Key Features

- Multiple channels transmitted (pressure, temperature, flow, status inputs and operation of differential pressure switches or slam open/close)
- Design allows for rapid deployment
- Supports dual temperature channels
- Compatible with 3 wire PT100 RTD
- Programmable alarm dial-outs
- User changeable Zone 0 ATEX rated battery packs
- 5 years plus battery life
- IP comms Protocol over 4G NB/LTE-M with 2G fallback
- Certified for use in Zone 0 hazardous locations
- Compatible with Technology's solar energy (GEM) and battery technology
- Local or remote data retrieval of stored data



Technical Specifications

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Analogue Inputs	**Channels:** Various configurations available, 4 channels can be split between up to 3 pressures and 2 temperatures. All channels sampled instantaneously at logging interval. Channel 1 ("outlet" pressure) may be sampled alternatively at 10Hz and summary of min, max, mean and standard deviation stored at the logging interval. Standard pressure ranges (gauge pressure below 10 bar, absolute 10 bar and above): 0 - 75 mbar; 0 - 100 mbar ; 0 - 3 bar , 0 - 7 bar, 0 - 10 bar (please contact Technolog regarding availability of alternative pressure ranges) **Accuracy / resolution:** +/- 0.5% **Temperature input:** PT100 (3 wire) x 2
Digital Inputs	**Channels:** 8 channels available for 0-3V digital signal or volt-free contacts **State input (8 channels max):** record date and time of events and generate alarms **Pulse input (2 channels max):** count pulses (e.g. flowmeter) and record total for each logging interval. Maximum rate 10Hz
Communication Protocol	**Cellular:** IP Comms over 2G or 4G Cat-M/NB-IoT **Local:** E5565 at 1200-4800 bps
Memory	**Type:** Solid state **Size:** 128k. Rotating store or store until full, time-based recording
Clock	**Type:** Crystal controlled calendar clock, with leap year adjustment **Accuracy:** 5 minutes per year over operating temperature range
Supply	**External (6/12cell):** 3.9v Typical battery life 5 years + **External Solar:** Via Technolog GEM **Back up cell:** Supports data logging functions only
Environmental	**Operating ambient temperature:** -20°C to +60°C
Intrinsic Safety	**Certified Intrinsically safe:** Ex ia Ga IIC Ta = -20 to + 60°C **Certificate numbers:** – CML 26UKEX2051X – CML 26ATEX2050X – IECEx CML 26.0014X
Connections	– Glanded variant – 19 way connector for IS terminal box
Mechanical	**Dimensions (mm):** 260x 170 x 94 (Enclosure only) **Weight:** 1.800 kg (weight may vary depending on build)

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