Newlog DR3

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Easily deployable battery powered telemetry outstation for monitoring critical parameters of gas distribution networks, aiding in the reduction of operating costs and capital expenditure.

The Newlog DR3 accurately captures gas pressure, customisable input and alarm events. Data is transmitted over the cellular networks to provide an effective stand-alone monitoring solution without the necessity for regular site visits.

Key Features

- Build options to accommodate single pressure and up to two digital inputs
- Supported communication 2G / 4G IP (NB-IoT , LTE Cat M1)
- Suitable for recording critical / low point pressure, flow, valve operation, filter blockage and level status
- Choice of pressure recording strategies
- Bi-directional communication and remote configuration
- Advanced channel profile and threshold alarms
- Low power design providing typically > 5 years battery life
- External antenna
- Certified for use in Zone 0 hazardous locations
- IP68 Protection against water ingress
- User replaceable battery with automatic low battery notification
- Compliments existing SCADA systems



Technical Specifications

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Pressure Input	**Standard ranges:** 75 mbar, 100 mbar, 200 mbar; 1 bar, 3 bar, 5 bar, 7 bar, 10 bar (please contact Technolog regarding availability of non-standard pressure ranges) **Resolution:** 0.5% of range **Pressure port:** Female ¼ BSPT thread, others on request
Electrical Inputs	**Configurable channel strategies :** Voltage, event, tamper / status, count, frequency **Digital:** Pulses counted over, and recorded at, pre-set intervals. Tamper/status and event time supported **Frequency input:** Switch closures or logic pulses, maximum frequency 16 kHz, programmable sampling period **Analogue:** 0 - 2.5V, 0.01V resolution as standard
Modem	– External antenna – Support for 2G, 4G IP, NB-IoT and LTE Cat M1 frequencies **SIM:** User replaceable SIM card
Memory	**Size:** 512kb
Clock	**Type:** Crystal controlled calendar clock **Accuracy:** 100 seconds per month maximum error over operating temperature range **Synchronisation:** Option to synchronise clock to GSM network
Supply	**Life:** Typical battery life 5 years depending on mode of use – High-capacity lithium pack, user exchangeable
Recording	**Recording interval:** Programmable between 1 second and 1 hour **Logging method:** Single sample averaging / statistical sampling storing min, max, mean and standard deviation **Data storage:** Rotating store or store until full
Alarms	– High / Low fixed, windowed and profile
Environmental	**Operating ambient temperature:** -20°C to +60°C **Ingress protection classification:** IP68 (1m / 24 hours)
Intrinsic Safety	**Certified Intrinsically Safe:** CML 21UKEX21278X, CML21ATEX21277X and IECEx CML 21.0146X, to Ex ia IIC T4 Ga
Connectors	– 4-way comms (configuration port) – SMA external antenna connection (Type N) – Electrical input (Mil. spec compatible size 8 3-way) – can also act as an analogue (voltage) or frequency input
Mechanical	**Dimensions (mm):** 241 x 92 x 67 **Weight:** 0.800 kg







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