

# Newlog 4 DR Mk.2

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 4 DR Mk.2 accurately captures gas pressure data, digital inputs and alarm events. This is transmitted over the GSM network 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
- Configurable for SMS or GPRS communications
- 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
- Intrinsically safe to EEx ia IIC T4 for Zone 0 deployment
- IP68 Protection against water ingress
- User replaceable battery with automatic low battery notification
- Compliments existing SCADA networks





# Technical Specifications

<b>Pressure Input</b>	<b>Available ranges:</b> 0 - 100 mbar , 0 - 200 mbar, 0 - 300 mbar , 0 - 500 mbar, 0 - 1 bar , 0 - 5 bar, 0 - 10 bar, 0 - 15 bar, 0 - 20 bar, 0 - 30 bar, 0 - 40 bar, 0 - 45 bar, 0 - 50 bar (other pressure ranges available upon request) <b>Resolution:</b> 0.5% of range <b>Pressure port:</b> Female ¼ BSPT thread, others on request
<b>Digital Input</b>	- 2 channels: Pulses counted over, and recorded at, preset levels or tamper/status or event recording
<b>GSM Modem</b>	<b>Quad band:</b> 850 MHz, 900 MHz, 1800 MHz, 1900 MHz <b>SIM:</b> Embedded SIM or user replaceable SIM card - SMS or GPRS (Class 8) communication
<b>Serial Port</b>	<b>Type:</b> Full duplex, asynchronous <b>Data Rate:</b> 1200, 2400, 4800, 9600 bps
<b>Memory</b>	<b>Type:</b> Solid state <b>Size:</b> 128k bytes
<b>Clock</b>	<b>Type:</b> Crystal controlled calendar clock <b>Accuracy:</b> 100 seconds per month maximum error over operating temperature range <b>Synchronisation:</b> Option to synchronise clock to GSM network
<b>Supply</b>	<b>Life:</b> Typical battery life 5 years depending on mode of use - Standard or high-capacity lithium packs, user exchangeable
<b>Recording</b>	<b>Recording interval:</b> Programmable between 1 second and 1 hour <b>Logging method:</b> Time based single sample or statistical sampling storing min, max, mean and standard deviation <b>Data storage:</b> Rotating store or store until full
<b>Alarms</b>	- High / Low fixed, windowed and profile
<b>Environmental</b>	<b>Operating ambient temperature:</b> -20°C to +60°C <b>Ingress protection classification:</b> IP68 (submersion at 1m depth for 24 hours) - IP68 Waterproof hydrophobic filter
<b>Intrinsic Safety</b>	<b>Certified Intrinsically Safe:</b> Ex ia IIC T4 Ga / SIRA 11ATEX2158X / IECEx SIR 11.0072X
<b>Connector</b>	- 4-way comms, 3-way flow complying with MIL-C-26482 - SMA external antenna connection
<b>Mechanical</b>	<b>Dimensions (mm):</b> 241 x 92 x 67 <b>Weight:</b> 0.915 kg