



Intelligens GNS ensures full compliance by Wales and West

when supplying gas to Short Term Operational Reserve (STOR) power stations

Wales and West Utilities operates the gas network across Wales and South West England. They are required to supply gas to Short Term Operational Reserve (STOR) power stations during periods of peak demand.

Electricity generation is achieved by gas powered generators housed at these sites. An example site houses ten standby gas engines and associated plant which will generate a total of 16,000kW. The standby power generators are usually required to operate between 07:00 and 21:00 hours, although most are likely to operate during peak load hours only.

To safeguard the network, Wales and West has Network Exit Agreements with each site containing maximum gas ramp up/down and detailed usage rates.

Wales and West Utilities two main objectives were having the ability to monitor gas flow, to ensure their customers were compliant within agreed limits, and to also help safeguard supply to the local gas network.

This is where HWM introduced the ATEX approved **Intelligens GNS** logger.

Intelligens GNS has been specifically developed to measure network pressures at gas governor stations. Significantly, for Wales and West Utilities, Intelligens is also able to monitor flow from gas meters by using accumulative pulse counting technology to calculate index readings against a known volume.

Intelligens can be mounted in close proximity to either a commercial or domestic gas meter, or on any other utility meter that has a pulsed output. The internal pressure sensor can be paired with an additional (or multiple) external pressure sensor, allowing for accurate measurements across a broad range of pressure combinations.

Particularly important in the application was the compatibility of Intelligens with the Chatterbox isolation unit, which is used to provide the necessary safety isolation between equipment generating pulses in a hazardous area and non-intrinsically safe equipment located in a safe area.

The successful introduction of Intelligens GNS ensures that Wales and West Utilities remain fully compliant with gas regulations.



About Intelligens GNS

Intelligens GNS is the innovative, ATEX approved data logger designed to monitor pressure points in gas networks.

Designed to reliably and securely transmit continuous data, Intelligens GNS ensures that maximum design pressures are not exceeded, without ever compromising a reliable supply.

Intelligens GNS can be used in combination with a variety of digital sensors, including pressure and temperature sensors, delivering an effective gas network monitoring solution.



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