

EdgeX Wireless

The **EdgeX Wireless** system provides a wireless instrumentation solution for measuring well data. When combined with the **EdgeX software** and **Data to Desk** its part of a complete data solution.

The wireless system replicates all the measurements normally taken using wired devices and can be run as a 'standalone' system or as part of a wired system to ensure all the necessary measurements are taken using the most suitable device.

The wireless system adopted by Expro is based on the *WirelessHART* protocol utilising existing proven technology for measurement devices and the versatility of a wireless set up.

The wireless solution is secure and reliable and the devices build a self-organising network, adapting to the environment around the well site ensuring all devices can use the network to connect to the wireless gateway located on or near the data acquisition system.

There are two gateway installation options, one mounted externally in the well test area or a gateway interface located in a safe area with externally mounted antenna. Both installations are suitable for Zone 1 installation.

The wireless gateway interfaces to the EdgeX computer and all parameters are logged, viewed and reported as a wired system.



Features and benefits

- Reduced rig up time
- Reduced trip hazards
- Industry standard communications
- Proven technology
- More data from single transmitter

Applications

- Well testing
- Clean up/flow backs
- Production testing
- Production surveillance
- Production optimisation
- Platform monitoring

Technical specification – typical sensors

| Location | Pressure | Temperature | Flow | Level |
|---|---|---|---|---|
| Wellhead | 0-10000 psig (0-689 bar) | 0-300 °F (0-149 °C) -50-250 °F (-46-121°C) | | |
| Upstream of choke manifold | 0-10000 psig (0-689 bar) | 0-300 °F (0-149 °C) -50-250 °F (-46-121°C) | | |
| Downstream of choke manifold | 0-10000 psig (0-689 bar) 0-4000 psig (0-275 bar) | 0-300 °F (0-149 °C) -50-250 °F (-46-121°C) | | |
| Test separator | 0-4000 psig (0-275 bar) | 0-300 °F (0-149 °C) | Mass Flow (Coriolis Meter) DP (Orifice Meter) Pulse counter (Turbine Meter) | Guided Wave Radar Vibrating Fork |
| Surge tanks and flare lines | 0-4000 psig (0-275 bar) | 0-300 °F (0-149 °C) | DP (Annubar Flow Meter) Pulse counter (Turbine Meter) | Guided Wave Radar Vibrating Fork |
| Note: The battery life of the wireless devices depends on the data transmission rate. | | | | |