



Wireless gateway



Connects 16 sensors



Patented by NEUTEL



Installed in minutes



HUB: WIRELESS TELEMETRY GATEWAY

The HUB unit collects measurements from the X series of wireless sensors, processes the data and sends it to a server on the internet. It is battery powered and designed to collect data from hazardous areas (Ex), using no cables or connectors.

HUB is used in production, transport and distribution of gases and fluids, when multiple sensors are required.

HUB is a stand-alone device that may be installed in any standard plastic enclosure. It collects data over an 868 MHz radio network that can extend for over a hundred feet.

GENERAL DESCRIPTION

The HUB unit is the gateway and collector for the network of XR and XS series of wireless sensors.

The device is battery powered, using "Low Power" engineering to guarantee an operating life of at least 4 years. The electronics and battery are fitted into a robust polyester box with three buttons for basic installation and diagnostic operations.

The HUB unit periodically receives data from the sensors, and stores them for transmission, or sends them out immediately if they trigger an alarm.

The device uses a GSM/GPRS modem to transfer data over the cellular network and to send real time alarms.

If the cellular network is not available at the time configured for upload, after a set number of retries, the data will be kept in standby, ready for the next connection. All units are time synced with the data server.

APPLICATIONS AND BENEFITS

HUB units, and its local wireless network of XS and XR sensors, are often installed in gas distribution networks. They are used in a range of situations, ranging from complex filtering and heating stations, to pressure reduction stations, down to simple network termination sites.

HUB is also used to relay liquid level measurements, inferred from hydrostatic head pressure, and pressure monitoring of technical gasses used in healthcare (Nitrogen, Oxygen), food industry (Nitrogen, Carbon Dioxide) and manufacturing.

The major benefits of the HUB device are reduced installation time and reduced qualifications required of installers.

INPUTS

Wireless channels	Up to 16
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SUPPORTED SENSORS

XS	Pressure measurement for fluids and gases
XR-DOOR	Door Open/Closed sensor
XR-CP	Cathodic Protection voltage measurement
XR-IN	Digital Inputs and Impulse counter
XR-OHM	Measurement of electrical resistance and insulation levels

COMUNICATION INTERFACES

Wireless local radio	FSK 868MHz @ 16kbps
Data gateway	GSM/GPRS
GPS sensor	On request

BATTERY LIFE

Standard operation	> 4 years
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ELECTRICAL AND MECHANICAL SPECIFICATIONS

Power supply	Primary Lithium battery 3.6V, 29Ah (3.0V ATEX model)
Certifications	2004/108/CE (EMC), 2002/95/CE (RoHS), EX-ATEX (on request)
IP rating	IP65
Size (hxwxd)	120x80x57 mm
Operating temperature	-35°C to +70°C
Reduced operation temperature range	-40°C to +85°C
Weight	400g

NEUTEL

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