dexdyne

DXP100 Data Sheet

Overview

The DXP100 is Dexdyne's latest offering of a complete integrated remote monitoring solution (RMS) that is IP65 rated. It has a full complement of ruggedised analogue and digital inputs ready to interface directly to your remote plant signals. This packaged system, with its industrial analogue and digital I/O modules and built-in AC or DC input power supply, delivers a versatile and compact remote monitoring system for transmitting logged plant data to the Cloud server.

The DXP100 is fully supported by Dexdyne's user friendly Cloud-based Enterprise Dashboard interface. The Dashboard's rich software suite supports functions such as real-time access to live HTML Mimics, Charting, Data download/reports in CSV or XLS format, Overview, email and SMS alerts, SMS administration and Remote Configuration changes. You can visualise and control all your remote sites from a single login on any web-enabled device such as iPad, iPhone or Android.

How does it work?

The DXP100 reads all your plant signals from configurable digital and analogue channels integrated in the enclosure. Each digital channel can be configured either as a 32 bit non-volatile counter or as a simple digital input. Similarly, the eight differential analogue inputs are high resolution and can be configured to accept either 0-10V or 4-20ma input signals. Furthermore, if your plant has a process PLC on a Modbus connection, then the DXP100 can monitor and log data from that as well. Monitored data can be logged locally once a minute – or at your own chosen interval.

The built-in 3G modem comes as standard which enables connectivity to the internet and delivers acquired data at a user-configurable frequency to the Cloud-based Enterprise Dashboard server over a secure link.

Applications

DXP100 is IP65 rated and is suitable for many outdoor applications such as:

- Water reservoir and pump monitoring
- Environmental monitoring
- Flood monitoring
- Fuel tank monitoring
- Foodgrain silos monitoring
- Smart agriculture

Technical Specification

External Communication	Wireless GSM/GPRS/3G GPS (optional)
Plant I/O	2 Wire RS485.
	16 x Optically isolated digital inputs (0-24V).
	Configurable as 32 bit pulse inputs or wet or dry digital inputs.
	8 Optically isolated x 16 bit differential analogue inputs configurable as 0-10V or 4-20ma.
	4 Optically isolated digital outputs rated for driving 24V@150mA/channel max.
	Additional I/O variants available on request.
Plant Protocols	Modbus RS485.
Alarm Reporting	Via SMS and email alerts.
Security	2048 bit SSL security.
	VPN.
	Multi-user, multi-level password protected access.
Data Logging	Scalable logging of data from connected equipment.
Software Update	Remote software update capability.
H/W Features	Low-power, no moving parts.
Physical and Electrical Features	Grey wall mounting IP65 rated box in Polycarbonate material.
	Dimensions: 300x300 x180 mm.
	Weight: 3.2Kg.
	Operational ambient temperature Range: -10 to +40°C.
	Humidity: 0 - 70% non-condensing.
	Power supply: 85-260V AC/DC. Power consumption: 12W typical under normal operation 20W typical when modem is transmitting