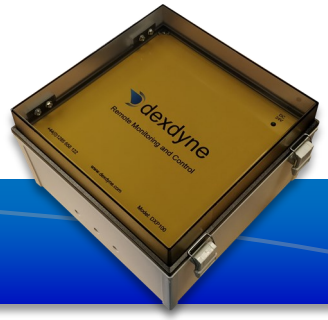
DXP100 Data Sheet



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