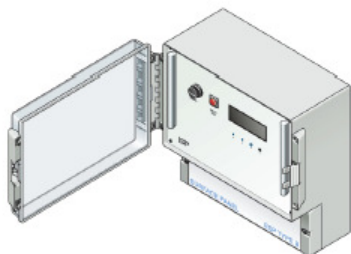


DATASHEET



Product Description

The Integrated Surface Panel (**ISP**) is a standalone data management system that displays, logs and monitors downhole gauge parameters to observe and react to changing well conditions.

Key Features

- OLED display for clear and accurate data
- Alarm/Trip functionality
- Data logging by day, week, month
- Multiple I/O channels to integrate with 3rd party systems
- AC or DC powered

| Screen 1 | |
|------------|--|
| Pi | Intake Pressure |
| Pd | Discharge Pressure |
| Ti | Intake Temperature |
| Pd 10K | Discharge Pressure to 10,000psi or 700 Bar |
| Screen 2 | |
| Pk | Peak Vibration |
| Vx | Vibration in X axis |
| Vy | Vibration in Y axis |
| Vz | Vibration in Z axis |
| Screen 3 | |
| Tm1 | Motor Temperature 1 |
| Tm2 | Motor Temperature 2 |
| Tm3 | Motor Temperature 3 |
| Tm Max | Maximum Motor Temperature |
| Screen 4 | |
| Star V | Star-point Voltage |
| Max Star V | Maximum Star-point Voltage |
| Gauge PCB | Electronics Temperature |
| Max PCB | Maximum Electronics Temperature |
| Screen 5 | |
| Line V | Supply Voltage at the Gauge |
| Current | Current drawn by the Gauge |
| Leakage | Current Leakage from Installation |
| Mode | Gauge Mode (diagnostics) |
| Screen 6 | |
| Incline | Gauge inclination |
| Signal Q | Signal Quality Indicator |
| SNx1000 | Gauge Serial number ('1000's) |
| SNx 1 | Gauge Serial number (<1000) |
| Screen 7 | |
| Start-ups | Number of gauge power cycles |
| Total Hrs | Total Gauge run hours |
| Hours 1 | Number of Gauge hours over 100°C |
| Hours 2 | Number of Gauge hours over 140°C |
| Screen 8 | |
| Counter | Gauge Data Packet counter |
| GDM Status | Decoder status (diagnostic) |

Using a modular design concept, the **ISP** combines the Gauge Decode Module (GDM) with an OLED display, data logger and multiple I/O ports. All interconnections are 'plug and play' to enable a simple exchange of components.

The **ISP** sends power to the downhole gauge and decodes the returning gauge signal. The high-resolution OLED display ensures data can be viewed in extreme environmental conditions that would otherwise challenge conventional LCD. The removable Micro-SD card is located on the front panel of the **ISP** and is capable of storing over one year of data at its maximum sample rate. Saved as a .csv format, the log files can be viewed with Microsoft Excel or other .csv compatible software. The integrated relay port can be programmed to activate on 4 different monitoring parameters simultaneously.

Powered from an AC or DC supply and housed in an IP rated enclosure the **ISP** is designed to be a standalone package that can be integrated with a variety of wellsite equipment from switchboards and variable speed drives, to RTUs and SCADA systems, using an isolated RS485 Modbus RTU, analog channel or optional Ethernet port to communicate.

The **ISP** is configured using a laptop with Oxford Configuration Manager software installed.

* Data displayed is dependent upon the gauge model

| Specification | | | |
|---------------|---|----------------|--|
| Enclosure | IP65, Polycarbonate Case, UV Resistant | Relay driver | Configurable for 4 parameters |
| Power supply | 110 to 230VAC, 50/60Hz, 30W 24VDC +/-5%, 30W | Communications | RS 485 Modbus RTU 4-20mA Analog Output RS 485 Engineers port |
| Connections | Connector rail, bottom entry | Operating temp | -30 to +70C |
| Data storage | 8GB, FAT 32 disk format, CSV file | Weight | 3.0Kg |
| Data display | OLED | Dimensions | 30cm x 28cm x 18cm |