

PHDG Equipment Catalogue PDHG Equipment

SURFACE ACQUISITION UNIT (SAU)

WellSystem utilizes the XPIO NILSEN Consulting Inc. Products for real time data acquisition. This version of the XPIO ships with an AC power supply that auto-detects and switches between 115V/25VAC operation.

The XP-IO consumes approximately 13W of power (@115VAC) when connected to a Sentry Gauge. The XP -IO is rated to operate at 14 to 150 degrees F (-10 to 65 degrees C).

NOTE: Do not store the XP-IO in freezing temperatures as it may damage the LCD display.

The XP -IO is designed to make use of its Backlight for the LCD as a small heater in order to avoid having the LCD Freeze.

When specially ordered, the XP-IO can also operate from a 12 VDC supply (typically used for solar/battery operation). The actual input range for the DC version is 9-36VDC. Hence the DC unit can operate from 12VDC or 24VDC (i.e. any voltage in the range).

Specifications

Physical

The XP -IO is enclosed in an anodized aluminum box with the following dimensions:

Height:	12 inches (30.48 cm)
Width:	10 inches (25.4 cm)
Depth:	5 inches (12.7 cm)
Weight:	10.5 lbs (4.75 kg)

Electrical

- Green backplane 4 x 4-20mA INPUTS (12-bit A/D); Read backplane 5 x 4-20mA INPUTS (12-bit A/D)
- 4 x 4-20mA OUTPUTS (16-bit D/A)
- 8 x spare lines which can be used for one of the following:
 - Frequency Output
 - o Frequency Input
 - TTL Input
 - o TTL Output
 - o Pulse Width Modulated Output



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Specifications

The XP -IO comes with general-purpose 4-20mA inputs (4 for the green backplane, 5 for the red backplane). These may be used to sample data from any external current-loop device. Through software this data can be scaled, displayed, and logged into memory along with the standard downhole Pressure/Temperature data.

NOTE: when ordered, one or more of these inputs can be configured for 0-5VDC or 0-10VDC inputs.

The XP -IO also has four 4-20mA outputs. Through the XPIO Windows Program, you can configure each of these channels to carry a representation of the decoded value of a downhole tool's Pressure or Temperature. Typically, this feature is used to connect to another Control/Scada system.

Extended Card IO

- o 20 x 4-20mA INPUTS (12-bit A/D)
- o 6 x 4-20mA OUTPUTS (16-bit D/A)
- 8 x spare lines which can be used for one of the following:
 - Frequency Output
 - Frequency Input
 - TTL Input
 - TTL Output
 - Pulse Width Modulated Output

The XP -IO comes with four general-purpose 4-20mA inputs - the Extended Card adds another 4 4-20mA channels as well as 12 configurable inputs. These may be: 4-20mA

0 to 5VDC 0 to 10VDC -5 to +5 VDC -10 to +10 VDC

In order to use the VDC inputs, the Extended Card must be custom ordered.

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