Digital Display Panels

Pressure Pulse Line

Specifications

System Studies now offers four impressive new central office panels that supplement the remote monitoring capability of the High Resolution Dual (pressure/flow) Transducers with independent alarming of low pressure and high flow. The panels contain a dual digital meter which separately displays total panel air consumption and delivery pressure information. The panel's meter component also includes the capability for independent alarming of low pressure and high flow, pressure calibration based on altitude, and alarm acknowledgment.

Dual Digital Panel Meter Display

Each dual digital panel meter includes two 3-digit LEDs (.6 inches high) which provide a highly visible display of delivery pressure and total air consumption. This meter is powered by -24VDC, and it features simplified wiring to the 289H LSS™ monitor.

Power Source Requirements

The Digital Display Panels require a source of -24V DC power for their LED displays. System Studies supplies two AC power supplies that can be used with the Digital Panels, as well as two types of -48V DC to -24V DC power converters:

■ Digital Power Supply Panel (117V AC to -24V DC). This equipment is recommended for supplying power to multiple digital panels when the 289H LSS monitor's -48V DC power requirement has already been fulfilled (by using either CO battery or the -48V DC power supply described below).

■ DC to DC Power Converter (for multiple panel assemblies–one per rack). This -48V DC to -24V DC converter accommodates up to 18 digital displays.

■ Power Supply Panel (117V AC to -48V DC). Used primarily to power a 289H monitor, this -48V DC source needs to be converted down to -24V DC when supplying power to the Digital Panels.

■ Direct Digital Connection Module (for single panel installations, module fits in-line on hot side of power pair).

Features

■ Reads 4-20 mA High Resolution Dual (pressure/flow) Transducer

■ Displays converted readings on 3-digit LED displays

■ Enables user to establish an alarm set point that trips on increasing flow rate

■ Enables user to specify an alarm set point that trips on decreasing pressure reading

■ Provides contact closures for flow and pressure alarms

■ Allows manual resetting of contact closure during alarm conditions

■ Displays flashing LED reading when alarm is detected (1 second on/1 second off)

■ Displays slower flashing LED reading (1.5 seconds on/0.5 seconds off) when contact is acknowledged until the alarm clears

Digital Dual Pipe Alarm Panel
9800-3780

Digital Distribution Panel
9800-3782

Digital Legacy Distribution Panel
9800-3682

3240305.HHD

Digital Display Panels

Panel Part Numbering Information

Digital Dual Pipe Panel	P/N 9800-3780 Y2, P/N 9800-3780 Z2
Digital Single Pipe Panel	P/N 9800-3783 Y2, P/N 9800-3783 Z2
Digital Distribution Panel	P/N 9800-3782 LBS2, P/N 9800-3782 MBS2, P/N 9800-3782 HBS2
Digital Legacy Distribution Panel	P/N 9800-3682 LBS2, P/N 9800-3682 MBS2, P/N 9800-3682 HBS2
Digital Power Pipe Panel	P/N 9800-3799 L2, P/N 9800-3799 M2

Part Number Coding

Flow Transducer / Flow Finder Ranges:

X	0-19 SCFH (538 LPH)
Y	0-47.5 SCFH (1345 LPH)
Z	0-95 SCFH (2690 LPH)

Transducer Type:

1	High Resolution Flow Transducer
2	High Resolution Dual (pressure/flow) Transducer

Distribution Panel Flow Transducer / Flow Finder Ranges:

L	Low: Input = 19.0 SCFH, Output 9.5 SCFH
M	Medium: Input = 47.5 SCFH, Output 9.5 SCFH
H	High: Input = 95.0 SCFH, Output 19 SCFH

Distribution Panel Fittings:

BS	Manifold(s) supplied with nickel-plated brass tubing connectors for use with 3/8" plastic tubing

Digital Power Pipe Panel Flow Transducer / Flow Finder Ranges:

L	Low: 190.0 SCFH
M	Medium: 475.0 SCFH

Power Converters

Digital Power Supply Panel (117V AC to -24V DC)	P/N 9800-3186
Power Supply Panel (117V AC to -48V DC)	P/N 9800-3096
-48V DC to -24V DC Converter (for multiple panel assemblies)	P/N 9800-3196
Power Direct Connect Module (for single panel installation)	P/N 9800-3197

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