

MT821DPP/MT822DPP - Data Sheet

DIGITAL PIPE PANELS



Introduction

The MT821DPP/MT822DPP are advanced digital pipe panels (DPP) which can be connected to both one and two air pipes. It adopts high resolution flow and pressure transducer to measure air flow, total volume and pressure which can be displayed on two highly visible 4-digit LED's. The RS422 interface provides the remote centralized monitoring capability for air pressure, flow, total volume and the alarms of low pressure and high flow.

Features

- Microprocessor based.
- Modular design.
- With the advance transducers and scientific design, less than 0.5.PSI pressure drop through DPP.
- Two pressure measurements with two highly visible 4-digit LED display.
- Two flow measurements, total volume with two highly visible 4-digit LED display.
- LED indicators for power, run, communications, alarm and display selection.
- Two pressure regulators for air outputs
- Two shutoff valves for shutting off air pipes.
- Four test valves for manual pressure measurement.
- Dry contacts in NO and NC for low pressure alarm and high flow alarms.
- One RS422 serial communication port to read pressure, flow, total volume, and to read alarms; also, can set the thresholds for low pressure alarms and high flow alarms.
- Drop-in replacement for ageing mechanical type pipe panels.

Contact:

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General Characteristics

Description

The digital pipe panels (DPP) are configured as a single or dual pipe setups, which can be connected to one or two air pipes. It contains two pressure regulators to control dryer output pressure, two pressure transducers to measure the delivery pressure, two flow transducers to measure the flow rate into the air pipe, and two shutoff valves for the air pipe. For local visibility, it has LED's for flow, pressure and total volume display and has LED indicators for power, run, communication, alarms and display selection. And also, it has a RS422 serial communication port to send to and receive data from the host (Master Controller) to perform centralized monitoring. The DPP is reliable, accurate and above all, easy to install and operate.

Technical Characteristics

Controller <ul style="list-style-type: none"> Processor Local Display 	<ul style="list-style-type: none"> Microprocessor 51 series Four 4-digit LED's for 822DPP, Two 4-digit LED's for 821DPP
Electrical Noise Immunity <ul style="list-style-type: none"> Technical Characteristics: 	<ul style="list-style-type: none"> Meets CE and FCC Part 15 standards.
Environmental Conditions <ul style="list-style-type: none"> Continuous operation Transportation and storage Relative humidity 	<ul style="list-style-type: none"> 0° to +50° C -40° to +70° C 0 to 95% non-condensing
Power <ul style="list-style-type: none"> Input Voltage Power Consumption 	<ul style="list-style-type: none"> -36 to -72 VDC 5 watts maximum
Physical Properties <ul style="list-style-type: none"> Dimensions Mounting Communication port Inlet tube fitting Outlet tube fitting Test valves Shut off valves 	<ul style="list-style-type: none"> 11.5" x 4U 23" rack RS-422 1/2" tube fitting 3/4" tube fitting 4 Schrader valves for 822DPP, 2 Schrader valves for 821DPP On/off
Measurement Performance <ul style="list-style-type: none"> Flow range Pressure range Flow accuracy Pressure accuracy 	<ul style="list-style-type: none"> 0-150 SCFH 0-30 PSI +/- 3 SCFH (>25 SCFH) +/- 0.3 PSI

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