



# MFD Digital Pressure Switch

MFD's compact and economical digital pressure switches display system pressure on an integrated LCD and provide dual programmable digital output signals. Designed for use with MFD air preparation equipment, the DPS also offers an available analog output to transmit pressure data directly to the control system.

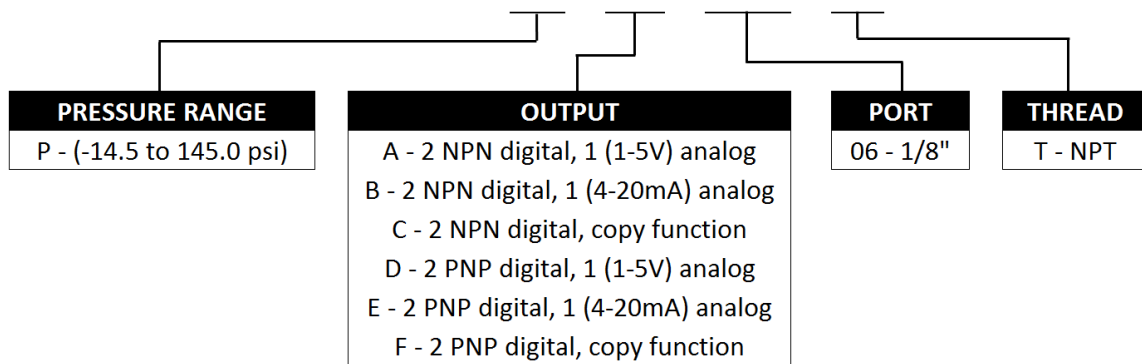
## Features and Benefits

- **Easy to read digital display**
  - Programmable display units: psi, bar, MPa, and kg/cm<sup>2</sup>
  - Dual digital output indicators
  - Two programmable display colors
- **Multiple output options**
  - Two individually-programmed sinking (NPN) or sourcing (PNP) digital outputs standard
  - One 1-5V or 4-20mA analog output optional
- **Technical highlights**
  - Copy settings to a second pressure switch automatically with the available copy function
  - User-selectable hysteresis and switching modes
  - IP65 enclosure protection
  - Adjustable response time to eliminate chatter



## How to Order

DPS P - A - 06 - T





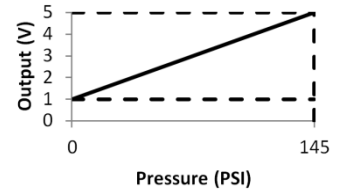
# MFD

## Engineering Specifications

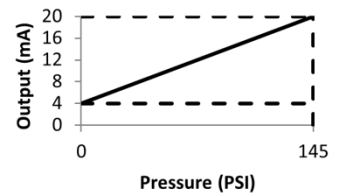
Model	DPSP-A	DPSP-B	DPSP-C	DPSP-D	DPSP-E	DPSP-F
Media	Air or inert gas					
Rated Pressure Range	0 to 145 PSI (0 to 1.0 Mpa)					
Proof Pressure	217 PSI (1.5 Mpa)					
Pressure Setting Range	-14.5 to 145 PSI (-0.1 to 1.0 Mpa)					
Temperature Range	32 to 120°F (0 to 50°C)					
Voltage	12 to 24 VDC +/- 10%, 10% max. ripple (P-P)					
Current Consumption	<= 40mA (no loads)					
Type	2 - NPN (Sinking)			2 - PNP (Sourcing)		
Max. Load	125mA (each)					
Residual Voltage	<= 1.5V					
Response Time	<=2.5ms (user-selectable: 25ms, 100ms, 250ms, 500ms, 1000ms, 1500ms anti-chatter function)					
Short Circuit Protection	Yes					
Repeatability	+/-0.2% F.S. +/-1 digit					
Type	1-5V (+/- 2.5% F.S.)	4-20mA (+/-2.5% F.S.)	-	1-5V (+/- 2.5% F.S.)	4-20mA (+/-2.5% F.S.)	-
Impedence	~1kΩ	50-250Ω (12V Supply), 50-600Ω (24V Supply)	-	~1kΩ	50-250Ω (12V Supply), 50-600Ω (24V Supply)	-
Linearity	+/- 1% F.S.		-	+/- 1% F.S.		-
Type	3-1/2 digit, 7-segment (red, green, orange)					
Resolution	0.001 Mpa, 0.01 kgf/cm <sup>2</sup> , 0.01 bar, 0.1 psi					
Switch Indicator	One per digital output					
Refresh Rate	~0.2s					
Indicator Accuracy	+/-2% F.S. +/-1 digit at 77+/-5°F (25+/-3°C)					
Enclosure Rating	IP65					
Temperature Characteristic	+/-2% F.S. of detected pressure at 77°F (25°C)					
Included Cable	Oil-resistant, 2m long					
Weight	86g					

## Analog Output Characteristics

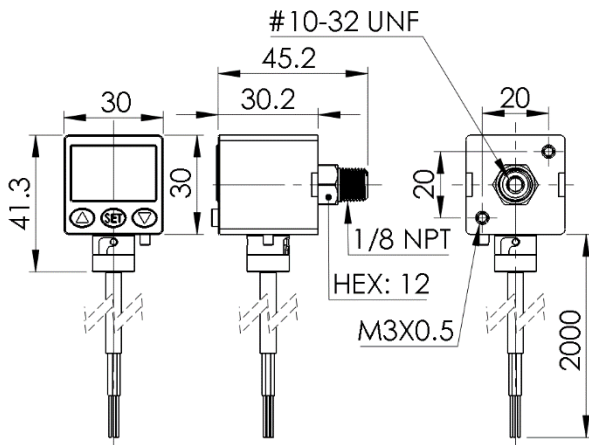
(1-5V)



(4-20mA)

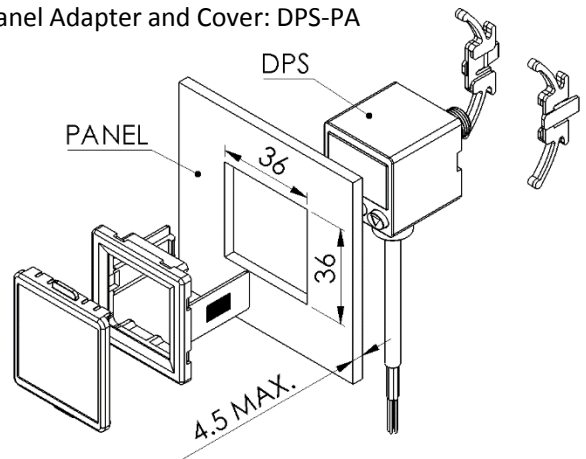


## Dimensions – [mm]



## Accessories

Panel Adapter and Cover: DPS-PA



5m Data Cable: DPS-C5M

