



Pressure Mini Station PMS-517

- Ideal for laboratory use.
- Available and upgradeable with up to eight pressure sensors.
- Ranges from 250 mmH₂O to 10,000 psi gage or absolute pressure, including vacuum and differential between any pair of sensors.
- Accuracy of 0.025 % of full scale reading.
- Measures pressure, mA and volts and generates mA and volts. Provides a 24 Vdc power supply for 2-wire transmitters, and contact input for pressure switch verification.

The Pressure Mini Station PMS-517 provides the user with practically any type or range of pressure in a single instrument. Its technical features indicate performance levels comparable only to laboratory standards, it presents accuracy of 0.025 % full scale. Measures pressure, mA and volts and generates mA and volts. Provides a 24 Vdc power supply for 2-wire transmitters, and contact input for pressure switch verification. Can be provided in single model with up to four pressure sensors or double model with up to eight sensors. Thus, only one mini station can have the most varied ranges of pressure. Can also be purchased with a number of pressure sensors and subsequently be added others.

Order Code

PMS - 517 - - - - - - - - - -

MODEL

S - single
D - double

RANGE Input 1	RESOLUTION	ACCURACY	REMARKS
0 - 0 - 250 mmH ₂ O	0.001	± 0.05 % FS*	Gage pressure Used with air or inert gases
1 - 0 - 1 psi	0.0001	± 0.05 % FS	
2 - 0 - 5 psi	0.0001	± 0.025 % FS	
3 - 0 - 15 psi	0.0001	± 0.025 % FS	Gage or absolute pressure. Used with fluids (gases or liquids) compatible with 316L stainless steel
4 - 0 - 30 psi	0.0001	± 0.025 % FS	
5 - 0 - 100 psi	0.001	± 0.025 % FS	
6 - 0 - 250 psi	0.001	± 0.025 % FS	
7 - 0 - 500 psi	0.01	± 0.025 % FS	
8 - 0 - 1,000 psi	0.01	± 0.025 % FS	
9 - 0 - 3,000 psi	0.01	± 0.025 % FS	
10 - 0 - 5,000 psi	0.1	± 0.025 % FS	
11 - 0 - 10,000 psi	0.1	± 0.05 % FS	
12 - others, upon request			

X - no sensor (for expansion)

Pressure Type Input 1

A - Absolute (Only for ranges 3 to 8)
G - Gage
V - Vacuum (Only for range 3)
C - Compound*** (Only for ranges 3 to 8)
D - Differential (Only for ranges 0 to 2)

RANGE and Pressure Type Input 2** _____

RANGE and Pressure Type Input 3** _____

RANGE and Pressure Type Input 4** _____

RANGE and Pressure Type Input 5** _____

(Only for double version)

RANGE and Pressure Type Input 6** _____

(Only for double version)

RANGE and Pressure Type Input 7** _____

(Only for double version)

RANGE and Pressure Type Input 8** _____

(Only for double version)

(*) Full Scale

(**) Same code as input 1

(***) From -15 psi to the full scale of range

Code example: PMS-517-D-0G-3V-5G-6G-8A-9G-X-X, defines a 6 sensors Pressure Mini Station, which input 1 range from 0 to 250 mmH₂O gage pressure, input 2 from 0 to 15 psi vacuum, input 3 from 0 to 100 psi gage pressure, input 4 from 0 to 250 psi gage pressure, input 5 for 1,000 psi absolute pressure, input 6 from 0 to 3,000 psi gage pressure. Input 1 used with air or inert gases and the others used with fluids compatible with 316L stainless steel.

Electrical Specifications

Input Ranges	Resolution	Accuracy	Remarks
volt -10 to 11 V	0.0001 V	± 0.02% FS	R _{input} > 1 M
11 to 45 V	0.0001 V	± 0.02% FS	
mA -5 to 24.5 mA	0.0001 mA	± 0.02% FS	R _{input} < 160
Output Ranges	Resolution	Accuracy	Remarks
volt -1 to 11 V	0.0001 V	± 0.02% FS	R _{output} < 0.3
mA 0 to 22 mA	0.0001 mA	± 0.02% FS	R _{maximum} = 700
Two-wire transmitter (XTR) 4 to 22 mA	0.0001 mA	± 0.02% FS	V _{maximum} = 60 V

Accuracy values are valid within one year and temperature range from 20 to 26 °C. Outside these limits add 0.005 % FS / °C, taking 23 °C as the reference temperature.

Engineering units: psi, atm, kgf/cm², inH₂O, mH₂O, cmH₂O, mmH₂O, inHg, cmHg, mmHg, bar, mbar, Pa, kPa and torr.

Operating Ambient: 0 to 50 °C ambient temperature and 90 % maximum relative humidity

Pneumatic Connection: 1/4" NPTF (1/8" NPTF only for the range 0 - 10,000 psi).

Overpressure: up to twice the value of full scale pressure (to sensors up to 5,000 psi).

Dimensions (HxWxD): Single Model: 185 X 175 X 200 mm. Double Model: 185 X 338 X 200 mm.

Weight: 1.8 kg (single) and 3.0 kg (double) approx.

Warranty: 1 year, except for rechargeable battery.

Included Items: test leads, manual and power cord.