



## External Digital Pressure Module MPYA

- Portable and compact.
- Used with Advanced Line Pressure Calibrators.
- It can be used in stand alone mode, connected to a computer, for online data acquisition.
- Features performance levels comparable to laboratory standards.
- Ranges from 250 mmH<sub>2</sub>O to 10,000 psi gauge or absolute pressure, including vacuum.
- Accuracy up to 0.025% of full scale.
- The module can be calibrated separately from the calibrator.
- Connected via USB, no external power required.

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The MPYA External Digital Pressure Module features small and compact dimensions used with Advanced Line calibrators for pressure reading such as MCS-XV or PCON Kompressor-Y18. Thus, MPYA allows you to expand the number of pressure ranges available on each calibrator as well as share its automatic calibration capabilities and documentation.

Its technical characteristics add performance levels only comparable to laboratory standards, having an accuracy of 0.025% of full scale.

Allows use in stand alone mode when connected to a computer for pressure monitoring and data acquisition. Connects to the calibrator or computer via USB, eliminating the need for external power supply. The module can be calibrated separately and stores in its internal memory the calibration parameters, which allows its use with different calibrators.

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**Order Code**

MPYA - 1 -   -  

**Number of Pressure Inputs**

1 - one sensor

**RANGE**

| Input 1                    | RESOLUTION | ACCURACY      | REMARKS  |
|----------------------------|------------|---------------|--|
| (0) 25 mbar                | 0.0001     | ± 0.05 % FS** | Gage pressure  |
| (1) 70 mbar                | 0.001      | ± 0.05 % FS   | Use with air or  |
| (2) 350 mbar               | 0.01       | ± 0.025 % FS  | inert gases  |
| (3) 1 bar                  | 0.00001    | ± 0.025 % FS  | Gage or absolute pressure.<br>Use with fluids (gases or liquids) compatible<br>316 L stainless steel |
| (4) 2 bar                  | 0.00001    | ± 0.025 % FS  |  |
| (5) 7 bar                  | 0.0001     | ± 0.025 % FS  |  |
| (6) 20 bar                 | 0.0001     | ± 0.025 % FS  |  |
| (7) 35 bar                 | 0.001      | ± 0.025 % FS  |  |
| (8) 70 bar                 | 0.001      | ± 0.025 % FS  |  |
| (9) 210 bar                | 0.001      | ± 0.025 % FS  |  |
| (10) 350 bar               | 0.01       | ± 0.025 % FS  |  |
| (11) 700 bar               | 0.01       | ± 0.05 % FS   |  |
| (12) Others, upon request  | -          | -             |  |
| (BR) Barometric Reference* | 0,0001     | ± 0.02 % FS   |  |

**Pressure Type** Input 1 (Except for BR)

Pressure Type

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)

(\*) BR - Barometric Reference (850 to 1100 mbar): Sensor for ambient pressure measurement. Can be used for simulated indication of absolute pressure on the other sensors of the calibrator.

(\*\*) Full Scale

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

**Engineering Units:** psi, atm, kgf/cm<sup>2</sup>, inH<sub>2</sub>O, mH<sub>2</sub>O, cmH<sub>2</sub>O, mmH<sub>2</sub>O, inHg, cmHg, mmHg, bar, mbar, Pa, kPa and torr, selected in the calibrator.

**Pneumatic Connection:** 1/4" NPTF (Note: 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).

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

**Dimensions:** 95 mm x 144 mm x 72 mm (HxWxD).

**Weight:** 0.9 kg nominal.

**Warranty:** 1 year.

**Included Items:** carrying case, technical manual and USB cable.