PCON-Y17 Pressure Controller/Calibrator



Desktop version



Direct Printing of Calibration Report (pass / fail) (PDF or connected USB printer)

- ★ Control pneumatic pressure from vacuum up to 3,000 psi (210 bar).
- Automatic calibration of pressure switches and pressure transmitters.
- 24 Vdc regulated power supply for 2-wire transmitters.
 - Optional barometric reference to emulate absolute pressure.
 - Configurable stabilization and control settings.
 - Optional Hart.
 - Protection of calibration data for 21 CFR Part 11 Compliance.
 - Auto tuning to different input supply pressures.



19" Rack **Mounting** version





- ✓ Touch Screen display provides easy-to-read data and shows 2 simultaneous variables.
 - ✓ Intuitive menu navigation helps to identify calibrator information for any operational mode.
- ✓ Hart Calibration shortcut for easy and direct adjust of upper and lower range of the sensor-transmitter loop.





- ✓ PRESET STEPS creation to optimize calibrations.
- ✓ Automatic testing of pressure switches.



- ✓ Different pressure control settings to avoid overshoot or to limit pressure increase/decrease rate.
 - ✓ Pressure height of head correction.

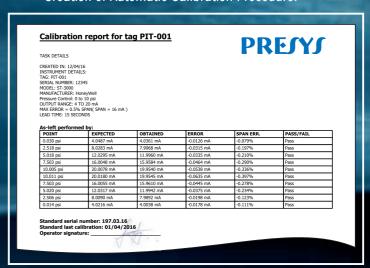




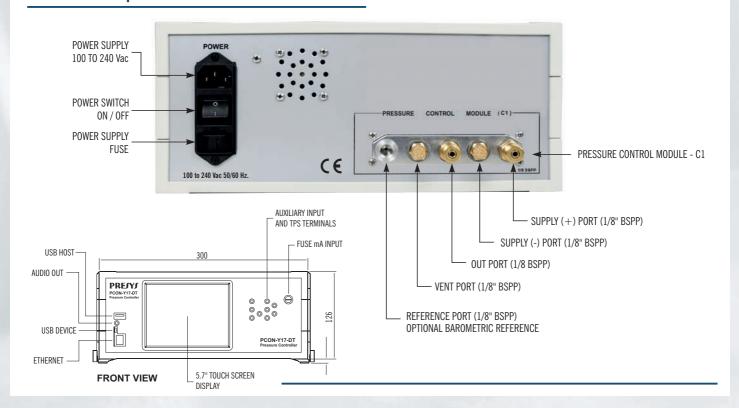
- ✓ Fast calibration of gauges using jog keys to reach cardinal points.
- ✓ Calibrate your gauges in 5 minutes and directly print the report without writing anything down.

- RESET AS LEFT
- ✓ SCPI Protocol to communicate with your existing application and replace your obsolete controller.
- ✓ Creation of Automatic Calibration Procedure.

- ✓ Video to show tutorials or registered procedures
- ✓ Automatic cycling and generation of the calibration report on a direct connected USB printer or generation of a PDF file.



Pressure ports - rear view (DT)



PCON common features

- 5.7" Touch Screen Color Display. Dual Core 1 GHz processor and Flash memory of 16 GB
- Ethernet, Wi-Fi via USB/Ethernet router adapter, Serial USB with SCPI protocol
- Integrated WebServer, client-server technology to pick-up tasks on remote server
- Host/Device USB port
- Optional HART Communication
- Pressure switch automatic testing
- Input Current: -1 to 24.5 mA, \pm 0.02% FS
- Transmitter Power Supply: 24 Vdc regulated
- Leak test
- Temperature compensated accuracy from 0°C to 50°C
- User selectable pressure unit: Pa, hPa, kPa, MPa, bar, mbar, psi, mmHg@0°C,cmHg@0°C, mHg@0°C, inHg@0°C, inH $_2$ 0@4°C, mmH $_2$ 0@4°C, cmH $_2$ 0@4°C, mH $_2$ 0@4°C, mmH $_2$ 0@20°C, cmH $_2$ 0@20°C, mH $_2$ 0°C, mH $_2$ 0@20°C, mH $_2$ 0°C, mH $_$
- Media: clean gas (air or inert), pressure input 50 % to 120 % of full scale
- Control speed: 10 s (for 10 % FS pressure increase in a 50 ml test volume)

PCON-Y17-FS

Our pressure controller integrated in a rugged case with a powerful battery for your field services.



Technical Specifications

Order Code

Pressure
Control
Module (C1)
Pressure
Control
Module (C1)
Pressure
(Optional)

Pressure
Frequence
(Optional)

Mounting Version
DT - Desktop Version (for Workbench use)
RM - Rack Mounting Version (Fixed in a 19" Rack or Workbench)

Hart Communication -

NH - Without Hart Communication

CH - Hart Calibrator (basic commands: zero, span, trim mA)

FH - Full-Hart® Configurator, with DD library from *FieldComm Group* and one year updates.

Pressure Controller Range (C1) -

Tressure Controller Kange (C1)					
Ranges	psi	bar	SI-Pascal	Control Stability	Accuracy
(0)	0.35 psi	25 mbar	2.5 kPa	± 0.04 % FS*	± 0.025 % FS
(1)	0-1 psi	70 mbar	7 kPa	± 0.02 % FS	± 0.025 % FS
(2)	0-5 psi	350 mbar	35 kPa	± 0.004 % FS	± 0.012 % FS
(3)	0-15 psi	1 bar	100 kPa	± 0.002 % FS	± 0.012 % FS
(4)	0-30 psi	2 bar	200 kPa	± 0.002 % FS	± 0.012 % FS
(5)	0-100 psi	7 bar	700 kPa	± 0.002 % FS	± 0.012 % FS
(6)	0-250 psi	20 bar	2.5 MPa	± 0.002 % FS	± 0.012 % FS
(7)	0-500 psi	35 bar	3.5 MPa	± 0.004 % FS	± 0.012 % FS
(8)	0-1000 psi	70 bar	7 MPa	± 0.004 % FS	± 0.012 % FS
(9)	0-3000 psi	210 bar	21 MPa	± 0.004 % FS	± 0.012 % FS
Processing Type (C1)					

Pressure Type (C1)

G - Gage

V - Vacuum (Only for range 3)

C - Compound *** (From range 3 to 8)

Note: For **Absolute** Pressure, must be included the **BR** optional

(Barometric Reference)

Optional

BR - Barometric Reference to measure and emulate absolute pressure Accuracy 0.025 % FS, range 15 psig

Pneumatic Connections (Pressure Control Module - C1): 1/8" Female BSPP (Supply (+) / Supply (-) / Output / Reference).

Power Supply: 100 to 240 Vac 50/60 Hz.

Operating Ambient: 0 to 50 °C, 90 % maximum relative humidity.

 $\textbf{Dimensions:}\ 125\ \text{mm}\ \text{x}\ 300\ \text{mm}\ \text{x}\ 265\ \text{mm}\ (\text{DT Version})\ /\ 132\ \text{mm}\ \text{x}\ 483\ \text{mm}\ \text{x}\ 105\ \text{mm}\ (\text{RM Version})\ (\text{HxWxD}).$

 $\textbf{Weight:} \ 6.2 \ \text{kg (DT Version)} \ / \ 8.5 \ \text{kg (RM Version)} \ \text{nominal}.$

Warranty: 1 year.







Your Distributor: