

PCON KOMPRESSOR-Y18

PRESYS

www.presys.com.br



**Field Service
FS-250**
version

Automated Pressure Calibrators
with built-in air compressor from
vacuum to 250 psi / 17 bar

**Rack Mount
RM-250**
version



- For automatic calibration of pressure measuring instruments including transmitters and switches.
- Integrated electric pump for positive and negative pressure generation.
- Encryption and protection of calibration data for 21 CFR Part 11 Compliance.
- Direct printing of calibration report (pass / fail) (PDF or connected USB printer).
- Gauge or absolute pressures.

HART
COMMUNICATION PROTOCOL



PROFI
TBUS

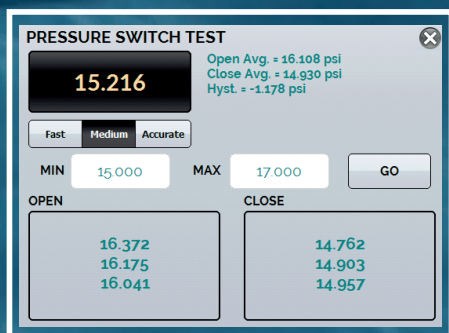
PRESYS[®] Pressure Controller/Calibrator

The PCON KOMPRESSOR-Y18 provides a complete solution for the test and calibration of your pressure.

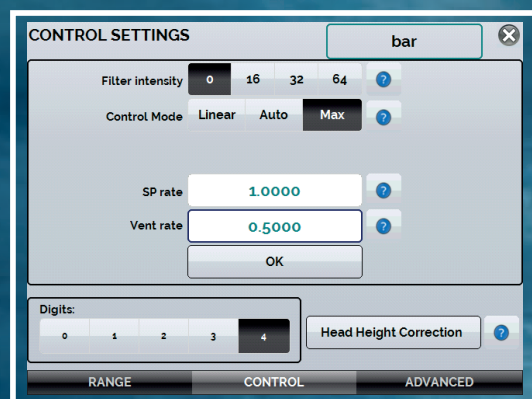
No extra software or computer is needed to generate the calibration test report on the fly and the data are tamper proofed in accordance with 21 CFR Part 11.

PCON-Y18 is a real documenting automated calibrator to calibrate more efficiently your instruments in the industrial areas that will become quickly an indispensable tool in your day to day work allowing real gains of productivity.

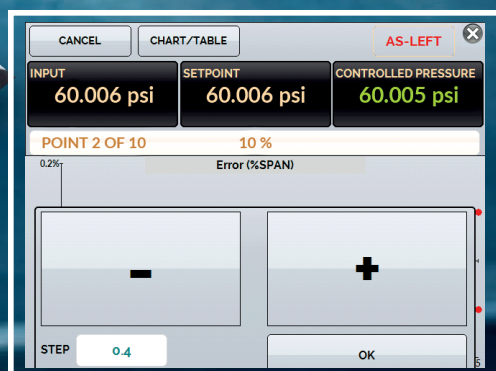
- ✓ Touch Screen display provides easy-to-read data and shows 2 simultaneous variables.
- ✓ Intuitive menu navigation helps to identify calibrator information for any operational mode.



- ✓ 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.
- ✓ SCPI Protocol to communicate with your existing application and replace your obsolete controller.

✓ Creation of Automatic Calibration Procedure.

PRINT

CLEAR AS-LEFT

PERFORMED BY:

POINT	EXPECTED	OBTAINED	ABS. ERR.	SPAN ERR.
-0.02 mmH2O	3.9989 mA	3.9871 mA	-0.0118 mA	-0.074%
75.14 mmH2O	8.0075 mA	8.0011 mA	-0.0064 mA	-0.040%
150.21 mmH2O	12.0112 mA	11.9943 mA	-0.0169 mA	-0.106%
225.20 mmH2O	16.0107 mA	16.0062 mA	-0.0045 mA	-0.028%
299.89 mmH2O	19.9941 mA	19.9910 mA	-0.0031 mA	-0.019%

AS-FOUND

AS-LEFT

AS-FOUND ERR.

AS-LEFT ERR.

DETAILS

✓ Automatic cycling and generation of the calibration report on a direct connected USB printer or generation of a PDF file.

CALIBRATION REPORT FOR TAG **PRESYS**

TAG: vv	MODEL:
SERIAL NUMBER: II	MANUFACTURER:
OUTPUT RANGE: 4 to 20 mA	
PRESSURE CONTROL: 0 to 300 mmH2O	
STANDARD:	
MANUFACTURER	SERIAL NUMBER
PRESYS	0010101
MODEL	NEXT CAL.
PCON-V17	
CERTIFICATE NUMBER	

As-found performed by:

POINT	EXPECTED	OBTAINED	ERROR	SPAN ERR.	PASS/FAIL
-0.02 mmH2O	3.9989 mA	3.9871 mA	-0.0118 mA	-0.074%	Pass
75.14 mmH2O	8.0075 mA	8.0011 mA	-0.0064 mA	-0.040%	Pass
150.21 mmH2O	12.0112 mA	11.9943 mA	-0.0169 mA	-0.106%	Pass
225.20 mmH2O	16.0107 mA	16.0062 mA	-0.0045 mA	-0.028%	Pass
299.89 mmH2O	19.9941 mA	19.9910 mA	-0.0031 mA	-0.019%	Pass

As-left performed by:

POINT	EXPECTED	OBTAINED	ERROR	SPAN ERR.	PASS/FAIL
0.01 mmH2O	4.0005 mA	3.9819 mA	-0.0186 mA	-0.116%	Pass
75.19 mmH2O	8.0101 mA	7.9963 mA	-0.0138 mA	-0.086%	Pass
149.86 mmH2O	11.9923 mA	11.9904 mA	-0.0021 mA	-0.013%	Pass
225.16 mmH2O	16.0085 mA	16.0029 mA	-0.0056 mA	-0.035%	Pass
300.06 mmH2O	20.0032 mA	19.9944 mA	-0.0088 mA	-0.055%	Pass

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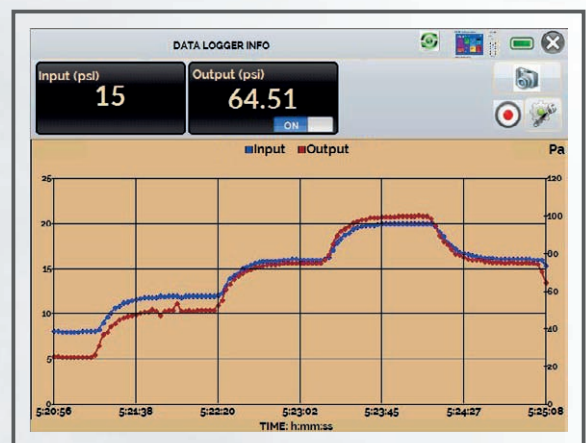
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✓ Encryption and protection of calibration data for 21 CFR Part 11 Compliance.



✓ 2 Channels datalogging feature.



PCON KOMPRESSOR-Y18 - 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® / Profibus® 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, inH₂O@4°C, mmH₂O@4°C, cmH₂O@4°C, mH₂O@4°C, mmH₂O@20°C, cmH₂O@20°C, mH₂O@20°C, kg/m², kg/cm², mtorr, torr, atm, lb/ft².
- ▶ Control speed: 10 s (for 10 % FS pressure increase in a 50 ml test volume).
- ▶ Integrated electric pump for positive and negative pressure generation.

Technical Specifications

Order Code

PCON KOMPRESSOR-Y18 –

Barometric
reference
(Optional)

Mounting Version

FS - Field Service Version (Portable version for field use)

RM - Rack Mounting Version (Fixed in a 19" Rack or Workbench)

Maximum Pressure

250 psi (17 bar)

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.

Profibus® Communication

NP - No Profibus® Communication

PB - Profibus® PA Communication

Optional

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

Pressure Controller Range (C1)

Ranges	psi	bar	SI-Pascal	Control Stability	Accuracy
(6)	0-250 psi	17 bar	2.5 MPa	± 0.002 % FS	± 0.012 % FS

Pneumatic Connections: connector for hose diameter 6 mm.

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

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

Dimensions: 200 mm x 300 mm x 260 mm (FS Version) /
132 mm x 483 mm x 300 mm (RM Version) (HxWxD).

Weight: 7.0 kg (FS Version) / 8.5 kg (RM Version) nominal.

Warranty: 1 year.

Includes technical manual and test leads.

Calibration Certificate (optional).

Note: Hart® is a Fieldcomm Group trademark.

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Your Distributor:

EF0657-00