PRESys Universal Process Calibrators -SMART Automatic Pressure CALIBRATOPS Calibrators PRESYS PRESYS

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PCON Kompressor-Y18 Field Automatic Pressure Calibrator

PRESYS

www.presys.com.br

Pressure Controller / Calibrator

The PCON Kompressor-Y18 provides a complete and autonomous solution for test and calibration on the field of your pressure gauges, transmitters and pressure switches.

With his oil-free and low power consumption internal air compressor, the PCON-Y18 provides high level of productivity for your day to day calibration tasks without the use of manual pumps.

With his communications facilities and his Open and Documented Protocol, the PCON-Y18 will communicate and integrate easily with your existing application or your CMMS system.

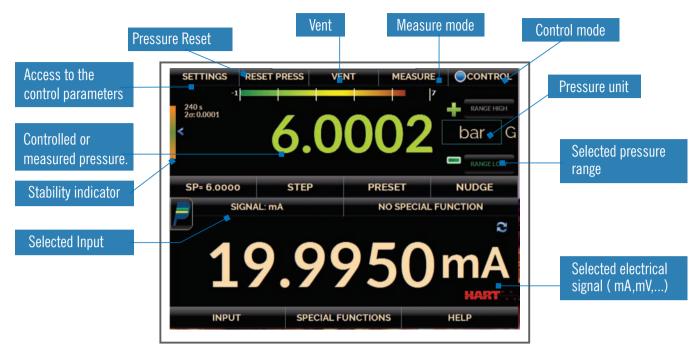
The PCON-Y18 is a real documenting automated pressure calibrator to calibrate more efficiently and accurately all your pressure instruments that will become quickly an indispensable tool in your day to day work allowing real gains of productivity.

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.
- Client-Server technology to pick-up tasks on remote server.
- Cloud Server access to send back calibration reports.
- Host/Device USB port.
- HART[®] Communication standard.
- Pressure switch automatic testing.
- > Input Current: -1 to 24.5 mA, \pm 0.01% 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, inH₂0@4°C, mmH₂0@4°C, cmH₂0@4°C, mH₂0@4°C, mmH₂0@20°C, cmH₂0@20°C, mH₂0@20°C, mH₂0W₂
- Control speed: 20 s (for 10 % FS pressure increase in a 50 ml test volume).
- Windowed Static Control Mode, reduce use of the electric pump and save battery.
- Integrated electric pump for positive (up to 70 bar) and negative pressure (-0.9 bar) generation.
- Support of secondary Digital Pressure sensor on USB port to increase accuracy at lower pressure ranges or use as a standard pressure calibrator.
- Dual Pressure Range.

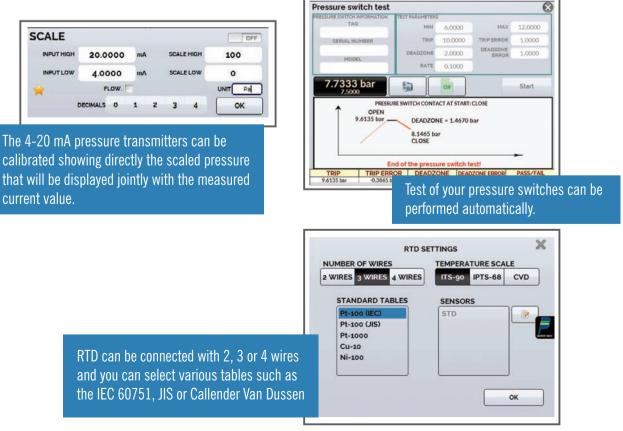
User-friendly Interface

With an easy, clear and intuitive interface, available in different languages, you will be ready to do your first calibration after a few minutes.



Inputs

The PCON-Y18 is equipped with an internal high-performance calibrator to read inputs signals such as mA, mV, V, RTD and pressure switches as well as HART[®] digital signal. You don't need another extra calibrator to read the electrical signals in order to perform the automatic calibration of your pressure transmitters or pressure switches.



Automatic Pressure Cycling and Tasks

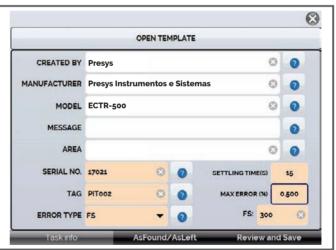
Automatic tasks can be easily created and executed to issue a final calibration report with your Advanced PCON-Y18 Pressure calibrator.

See for yourself how easy and fast can be an automatic pressure calibration !

First step is to create a task by entering the relevant data of the calibration you will perform.



Communication with your calibration software applications such as ISOPLAN[®] are encrypted to assure the integrity of your calibration data in accordance with 21 CFR Part 11. When activated by the administrator, the XML data file with calibration information will be encrypted. You can create tasks using the touch screen display or by connecting the PCON-Y18 to your computer. Other methods are also possible such as sending task from your application using our XML description or from an existing Excel[™] application. The PCON-Y18 can also pick-up a task directly on a remote server. All these possibilities are described and documented in our communication manual.



EXPECTED		mA			
POINT		POINT			
REPETITIONS	0	AUTO			5
STRATEGY		H H			
EXPECTED 0	0000	🖸 mA	0	4.0000	<u>×</u>
POINT		POINT	3	8.0000	
REPETITIONS	1	AUTO	6 9	12.0000 16.0000	
STRATEGY			12	20.0000	_L
					_
ANGE 4.0000	8	20.0p00 🕄	mA		

Information about your DUT can be entered such as the model, location, serial number, TAG name and the accepted tolerance.

You can define the temperature setpoints and expected results, different type of cycles, up, down, up and down, down and up and the number of cycles that you want the calibrator to perform.

ASK SELECTION ELECT A TASK TO SEE THE DETAILS	Remote server
H	0
PIToo1	TASK DETAILS
	CREATED ON: 18/08/17 INSTRUMENT DETAILS: TAG: PIT001 SERIAL NUMBER: 17021 MODEL: 699
	MANUFACTURER: Huba Control PRESSURE CONTROL: -50 to 100 Pa SCALED OUTPUT RANGE: From 10.6700 to 20.0000 mA (Signal) From -50.00 to 300.00 Pa (Scale)
	MAX ERROR = 0.5% FS(FS = 300 Pa) SETTLING TIME: 15 SECONDS
WAITING PERFORMED	

When the PCON-Y18 is reaching the pressure setpoint, it will wait the defined stabilization time before registering the auxiliary input value.

Graphic is showing the values and the defined error limits.

You can switch easily during the execution from the graphic display to the values.

PRINT SAVE TO U		JSB C		
PERFORMED B	Y:			
POINT	EXPECTED	OBTAINED	ABS. ERR.	SPAN ERR
0.0000 bar	4.0000 mA	3.9998 mA	-0.0002 mA	-0.001%
2.9994 bar	7.9992 mA	7.9998 mA	0.0006 mA	0.004%
6.0012 bar	12.0016 mA	11.9996 mA	-0.0020 mA	-0.012%
9.0007 bar	16.0009 mA	15.9994 mA	-0.0015 mA	-0.009%
12.0002 bar	20.0003 mA	19.9992 mA	-0.0011 mA	-0.007%

It can be complemented with your company logo and your signature that are stored in the calibrator.

Other possibilities are offered:

 Sending the results to a USB pen drive (PDF, XML and CSV).
 Accessing with our Web Server application.
 Sending back the results to a Remoter Server.
 Access to internal file storage system through the USB or Ethernet/Wi-Fi connection. When you task has been created, you can go to the task list to be performed and choose the task you need to execute.

During the execution of the tasks, the PCON-Y18 will display the status of the execution showing the setpoint, the value of the reference and the auxiliary measured input.



When the task is finished, several actions can be taken. You can print the report directly to the connected printer.

The calibration report will contain all the DUT information, the calibration information of your PCON-Y18 and the calibration results.

TAG: PIT001			MODEL: 6	MODEL: 699			
SERIAL NUMBER: 1	7021		MANUFACTU	IRER: Huba Control			
SCALED OUTPUT RA From 10.6700 to 20. From -50.00 to 300.0	0000 mA (Signal) 00 Pa (Scale)	I					
-50 to 100 Pa							
STANDARD: MANUFACTURER	SERIAL NUMI	RED	MODEL	NEXT CAL	CERTIFICATE NUMBER		
PRESYS	800.08.17		DN-Y18	-	-		
s-found performed by:	John						
POINT	EXPECTED	OBTAINED	ERROR	F.SCALE ERR	. PASS/FAIL		
-50.01 Pa	-50.01 Pa	-50.15 Pa	-0.14 Pa	-0.047%	Pass		
0.01 Pa	0.01 Pa	-0.44 Pa	-0.45 Pa	-0.150%	Pass		
24.81 Pa	24.81 Pa	24.36 Pa	-0.45 Pa	-0.150%	Pass		
49.83 Pa	49.83 Pa	49.62 Pa	-0.21 Pa	-0.070%	Pass		
99.89 Pa	99.89 Pa	99.40 Pa	-0.49 Pa	-0.163%	Pass		
s-left performed by:							
POINT	EXPECTED	OBTAINED	ERROR	F.SCALE ERR			
-50.01 Pa -0.06 Pa	-50.01 Pa -0.06 Pa	-50.20 Pa -0.41 Pa	-0.19 Pa -0.35 Pa	-0.063%	Pass		
-0.06 Pa 24.87 Pa	24.87 Pa	24.55 Pa	-0.35 Pa	-0.117%	Pass		
24.67 Pa 50.00 Pa	50.00 Pa	49.34 Pa	-0.32 Pa	-0.107%	Pass		
100.02 Pa	100.02 Pa	99.02 Pa	-0.00 Pa	-0.333%	Pass		
-50.06 Pa	-50.06 Pa	-50.17 Pa	-0.11 Pa	-0.037%	Pass		
-50.06 Pa	-0.23 Pa	-50.17 Pa	-0.11 Pa	-0.037%	Pass		
24.93 Pa	24.93 Pa	24.39 Pa	-0.52 Pa	-0.180%	Pass		
50.08 Pa	50.08 Pa	49.32 Pa	-0.76 Pa	-0.253%	Pass		
99.68 Pa	99.68 Pa	99.09 Pa	-0.59 Pa	-0.197%	Pass		
-50.03 Pa	-50.03 Pa	-50.02 Pa	0.01 Pa	0.003%	Pass		
0.07 Pa	0.07 Pa	-0.44 Pa	-0.51 Pa	-0.170%	Pass		
24.85 Pa	24.85 Pa	24.59 Pa	-0.26 Pa	-0.087%	Pass		
49.69 Pa	49.69 Pa	49.46 Pa	-0.23 Pa	-0.077%	Pass		
99.97 Pa	99.97 Pa	99.26 Pa	-0.71 Pa	-0.237%	Pass		
22.22 10		22.20.10	1 0.7174	0.20170	1 1000		

Connectivity and Communication

Various ways to communicate for the user and from applications are available on the PCON-Y18. By connecting your PC on the USB port, the calibrator will behave as a Mass Storage Device allowing you to retrieve tasks in XML, PDF or CSV format. Connecting the PCON-Y18 on your IP network, several ways are available to get access to the PCON-Y18 system.

- You can access the task folder using the standard network Windows® File System.
- Sending and retrieving tasks file can be done through the HTTP protocol using a WebApi programming interface.
- Remote access from your computer using VNC Software.
- Access the Calibrator using a standard browser through the integrated Web Server.
- Access with FTP.
- Access to a Remote Server.

All these functions can be activated or desactivated in the configuration menu and also protected by a password.

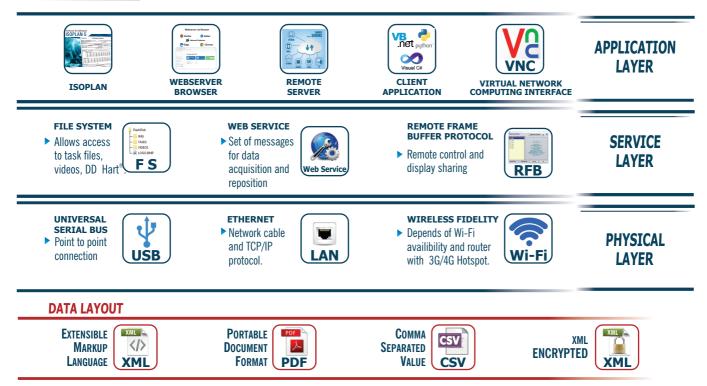
These extended connectivity features make our PCON-Y18 a calibrator ready for the Industry 4.0 able to communicate with any CMMS application.

	REMOTE ACCESS				
	WEB SERVER ON PORT 5000				
	SERIAL COMM				
Communication USB/SERIAL	BAUD RATE: 9600 - STOP BITS: 1 - EXEC OFF				
SCPI Protocol	FILE SHARING AND USB HOST CONTROL				
	USB STORAGE ON SECURITY FILE SHARE(CIFS) ON SECURITY FTP SERVER ON				
	REMOTE SERVER				
Remote Server Access Path	http://connector.isoplansoftware.com/ItasksCalibrator OK AUTOMATIC UPDATE UPDATE TIME(MINUTES) 1				
	DATE AND TIME NETWORK SERVICES SYSTEM				



Ready for the Industry 4.0

Connectivity and Communication



Configuration



We provide a protected access to the calibration menu of the PCON-Y18 so that you can send it to any good calibration laboratory in case an adjustment is needed.

> Several languages availables: English, Spanish, French, Portuguese, Italian, Russian.

User access can be defined with different types of rigths such as operator, technician or administrator.

Their signature that appears on the reports can be entered directly on the touch screen.

The user with operator right will have a limited acces to some functions such as the creation of calibration tasks.

RS MAN		SIGN	DPICTURE	DELETE	
	Je	sh	N		
CL	ear	CAN		ж	



Data Logger

PCON-Y18 allows you to record series of measurements overtime to display in chart or table format.

The data is saved in internal memory and can also be saved in pen drive and even exported to a .csv file.

Leak test

PCON-Y18 has a function to detect the drop of pression in the system during a defined laps of time.

	сні - IN 12.00	0 1 ba	MAX12.49		
	AVG				
	LEAK / ST	ABILITY T	EST		
	0	s	START	STOP	+205
50 % <	Average:0.0000bar/s Last second:0.0002bar/s				
	Δv = -0.00	oibar			м
	Start time Stop time				н
3					_

MAX	10.0000	bar	POINTS	6	
MIN	0.0000	bar		CREATE	
ERT STEP					
10.0000			0.0000 bar		
205			2.0000 bar		
**		4.0000 bar			
~~			6.0000 bar		
			8.0000 bar		
			10.0000 bar		
			-		

Predefined Steps

Predefined steps can be easily defined (division of span by a defined number of points, or values defined by the user). These steps are automaticaly executed by the pressure controller respecting the defined step duration.

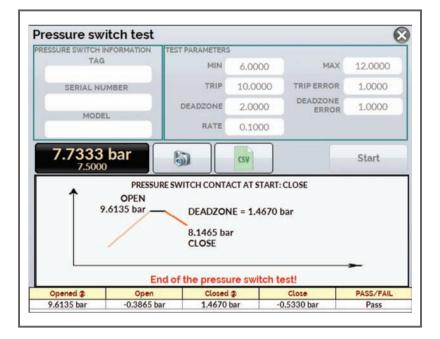
Procedures and Tutorials

Videos or documents in JPEG format can be stored on your PCON-Y18 allowing a immediate access of the technician to specific technical informations or procedures.

	RIALS AND HELP	C
SELECT A CATEGORY		
ABOUT BASICS		
SELECT A TUTORIAL		
DELETE WINDO	W FULL SCREEN	
VIDEOS	DOCUMENTS	UTILITIES

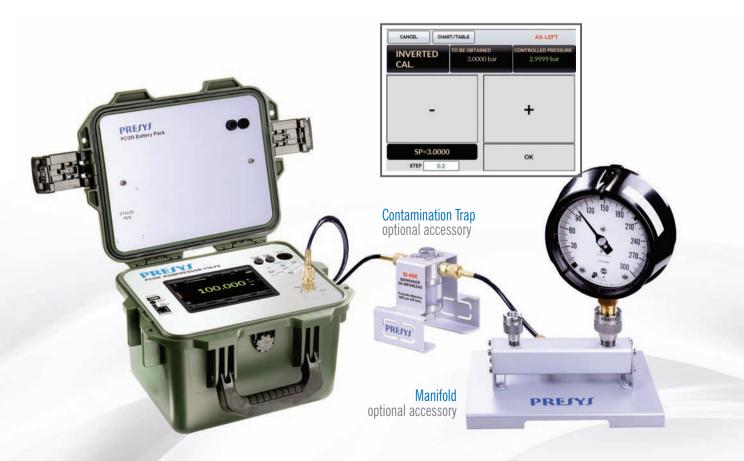
Switch

Easily test your pressure switches. The PCON-Y18 automatically generates a ramp at the pressure output and monitors through the auxiliary input the electrical contact, indicating the Trip (contact change) and Dead Zone (Hysteresis) values obtained.



Inverted Calibration

During a pressure gauge calibration execution, the keys + and - allow to increase or decrease the pressure of a defined value in order to reach a cardinal point of the gauge to avoid the reading of the pressure value on the DUT.



Kit Manifold

Facilitates the attachment of pressure transmitters and manometers for the realization of your calibrations.

Distance of 116 mm between the connections allowing the simultaneous display of 2 manometers.

- Material: anodized aluminum block and painted aluminum support.
- Connexions:
 - 1 x 1/2 "NPT Female + 1 x 1/4" NPT Female with quick sealing system in treated steel, polyurethane seals, nitrile rubber and Teflon (PTFE).

PRESYS

MPYA DIGITAL PRESSURE MODULE

 2 x 1/4 "NPT male brass adapter with sealing system for high-pressure hose, polyurethane seals, nitrile rubber and a plug with chain.

- Maximum Pressure: 200 bar.

Included accessories: ¹/₄ "NPT hexagonal plug, ¹/₂" NPT hexagonal plug and extension kit for another Manifold connected in series.





PRFSY

PRESSURE TRANSDUCED

Range :0 to 4000 bar

Accuracy : 0.1%F.S Type :gauge Serial Port 85-232 , 9.6KBAUD , Na

RETYS Instruments

vw.presys.com.br

Contamination Trap - SI-1000

Used to protect the pressure generators, they avoid contamination of the internal system of the calibrator / controller by liquids (water, oil, etc.) from the process instruments during the calibrations.

- Material: Stainless steel, polycarbonate and nitrile rubber seals.
- Connection: 2 x Adapters 1/8 "BSP male brass with sealed system

for high-pressure hose, polyurethane and nitrile rubber seal.

Model: SI-1000 Order Code: 06.08.0103-00 Maximum Pressure: 1000 psi (70 bar)

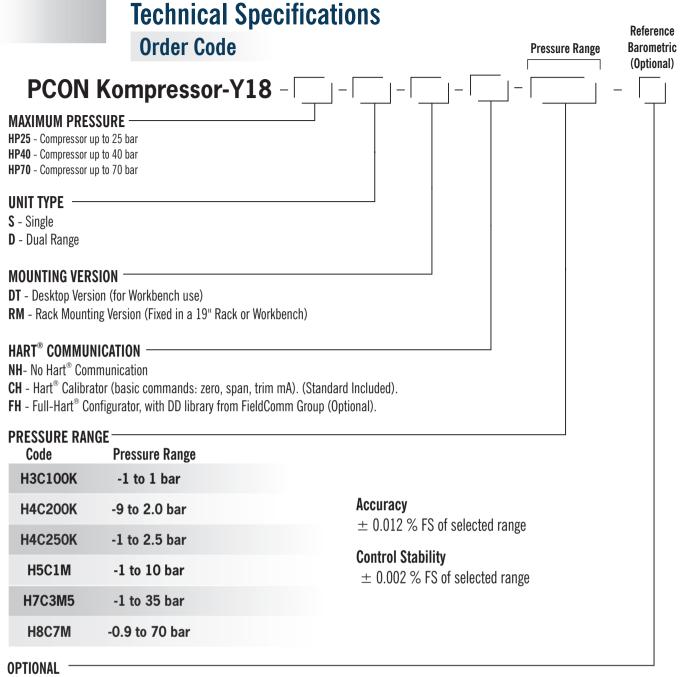
MPYA - External Digital Pressure Module

SERIAL

POWER

The PCON-Y18-Kompressor supports different types of External Digital Pressure Sensor connected directly to the USB port.

You can use these sensors to increase the accuracy at lower ranges or use your PCON as a standard pressure calibrator with an external pressure supply. We have Digital Pressure Sensors for all your needs, from very low pressure up to very high pressure of 4000 bar (60000 psi).



BR - Barometric Reference to measure and emulate absolute pressure Accuracy 0.16 mmHg / 0.2 mbar

Pneumatic Connections: 1/8" Female BSPP.

Battery: Lithium Polymer 1x Rechargeable Batteries 25.2 Vcc 4.2Ah (up to 25 bar).

2 x Rechargeable Batteries 25.2 Vcc 4.2Ah (above 25 bar).

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

Operating Ambient: 0 to 40 °C, 90 % maximum relative humidity.

Dimensions: 210 mm x 320 mm x 280 mm (up to 25 bar) /

360 mm x 420 mm x 230 mm (above 25 bar)

Weight: 7.0 kg (up to 25 bar) / 10.0 kg (above 25 bar) nominal.

Warranty: 12 months - see general warranty conditions at /www.presys.com.br/warranty

Note: Hart[®] is a Fieldcomm Group trademark.

PRESYS Instruments

Is a leading manufacturer and developer of calibrators for temperature, pressure and process signals as well as calibration software offering a complete solution for process calibration needs. Presys has an ISO/IEC 17025 accredited laboratory issuing accredited certificates in accordance with international standards.



Your Distributor:

Due to our program of continual development and improvement, we reserve the right to amend or alter characteristics and design without prior notice.