

» Pressure ranges

HPC600-2A 2 bara / 30 psia HPC600-2C 2 bar / 30 psi HPC600-10A 10 bara / 150 psia HPC600-10C 10 bar / 150 psi HPC600-020C 20 bar / 300 psi

» High accuracy ±0.020% of reading +0.015% F.S.

» True field calibrationFully temperature compensated

» Unique built-in electrical pump HPC600 has a built-in automatic pressure system, based on an electrical pressure and vacuum pump.

» Complete 4-20 mA loop calibrator HPC600 features a complete mA loop calibrator, measure, source, sing and 24 volt loop supply.

» Comprehensive set of features Wide selection of useful functions and features. Damping, leak test, error calculation, min/max, switch test, etc.

» Thermometer High accuracy thermometer, Pt100 sensor.

» External pressure modules Many different pressure modules, accuracy up to 0.01% F.S.

ISO 9001 Manufacturer

Specification Sheet SS-HPC600

Handheld Pressure Calibrator **HPC600**



The JOFRA HPC600 calibrator features a built-in electrical pump system, for generation of pressure and vacuum, with a touch of a single key!

Besides the unique pump system, the HPC600 offers a complete suite of features and functions, making it an ideal tool and calibrator.

A true multifunction solution, designed to save time, money and space... HPC600 is a pressure indicator, a pressure calibrator, a complete mA loop calibrator, including 24 volt supply, a voltmeter, a thermometer and a pressure/vacuum generator. All in a ruggedized housing, with an easy intuitive operating system, in the palm of your hand.

The HPC600 is delivered as a ready-to-test system, complete with hose, fittings, and padded soft case, equipped to meet any need for pressure calibration. International traceable calibration certificate, including vacuum and electrical parameters are a part of the standard delivery, to make the HPC600 solution truly ready-to-use.

The HPC600 can be used in a very broad range of applications from simple tool type jobs to complex calibration jobs in custody transfer systems. A time and money saver!

HPC600 is designed to meet high accuracy pressure calibration applications and is a multifunction tool. The HPC600 offers features such as user configurable information display, 15 different pressure units, transmitter supply, mA input/output, % error calculation, voltage measurement, serial communication, and external pressure module capability. The accuracy of the HPC600 calibrators is specified in % of reading to ensure an even better accuracy and wider applicable pressure range. The HPC600 is temperature compensated from -10 to 50°C / 14 to 122°F for on-site operation. It is a truly superior pressure calibrator for laboratory and field use, bringing laboratory accuracy into the field.

The JOFRA APM series of pressure modules extends the application base of the HPC calibrators by allowing calibrations in additional ranges.





Temperature measurement

High accuracy temperature measurement port by use of the optional Pt100 sensor. A superb instrument for easy and convenient temperature measurement.

Intuitive menu system

Combination of "soft keys" and cursor keypad ensures an easy operation.

Clear graphical display

Pressure connections

as standard.

Large backlit graphical display shows current status and mode, 1, 2 or 3 measurement windows, to suit your applications and demands.

1/8" Combined NPT/BSP female. 300 series stainless steel.

1/4" NPT male and 1/4" BSP female adapters are supplied



Vent valve / pressure vacuum selector

Pressure venier adjuster (Volume adjuster)

To fine tune pressure or vacuum output.

Electrical connections

HPC calibrators are well equipped and include inputs for mA, voltage, including 24 VDC supply for mA transmitters, and source and sink for mA loop calibration and test.

Handheld Pressure Calibrator • HPC600





Serial interface

RS232 connection for JOFRA APM pressure module or a computer.

Units

15 different pressure engineering units.

Full set of features

Perform semi-automatic pressure switch tests, leak test, % error calculation, switch in HART resistor or other calibrations tasks through the outstanding functions and features of the HPC600.

JOFRA APM pressure module

The JOFRA APM external pressure modules extend the range of the JOFRA HPC. There are more than 35 models available with gauge, absolute, differential, and vacuum pressure references, in metric and imperial engineering units.

The modules are engineered for in-plant, field, or laboratory use. They are ready-to-use with the JOFRA HPC and the protocol allows for immediate recognition and use of the module once it is plugged into the calibrator.



From To From To	APM Mk.II Type		Pressure	12 month accuracy			
Differential 0.025MD -0.025 0.025 -0.4 0.4 - 0.100 075MD -0.070 0.07 -1 1 - 0.050 350MD -0.350 0.35 -5 5 - 0.050 Compound 001C -0.960 1 -14 15 0.025% 0.010 002C -0.960 2 -14 30 0.025% 0.010 007C* -0.820 7 -12 100 0.025% 0.010 020C* -0.820 35 -12 500 0.025% 0.010 035C* -0.820 35 -12 500 0.025% 0.010 035C* -0.820 35 -12 500 0.025% 0.010 036* 0 1 0 15 0.025% 0.010 002G* 0 2 0 30 0.025% 0.010 007G* 0 7		Ba	ar PS		51	%rdg	%FS
025MD -0.025 0.025 -0.4 0.4 - 0.100 075MD -0.070 0.07 -1 1 - 0.050 350MD -0.350 0.35 -5 5 - 0.050 Compound 001C -0.960 1 -14 15 0.025% 0.010 002C -0.960 2 -14 30 0.025% 0.010 007C* -0.820 7 -12 100 0.025% 0.010 020C* -0.820 20 -12 300 0.025% 0.010 035C* -0.820 35 -12 500 0.025% 0.010 035C* -0.820 35 -12 500 0.025% 0.010 Gauge 0016* 0 1 0 15 0.025% 0.010 002G* 0 2 0 30 0.025% 0.010 02OG* 0 30		From	То	From	То		
075MD -0.070 0.07 -1 1 - 0.050 350MD -0.350 0.35 -5 5 - 0.050 Compound 001C -0.960 1 -14 15 0.025% 0.010 002C -0.960 2 -14 30 0.025% 0.010 007C* -0.820 7 -12 100 0.025% 0.010 020C* -0.820 20 -12 300 0.025% 0.010 035C* -0.820 35 -12 500 0.025% 0.010 035C* -0.820 35 -12 500 0.025% 0.010 035C* -0.820 35 -12 500 0.025% 0.010 002G* 0 1 0 15 0.025% 0.010 007G* 0 7 0 100 0.025% 0.010 020G* 0 35 0	Differentia	ı					
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Compound 001C -0.960 1 -14 15 0.025% 0.010 002C -0.960 2 -14 30 0.025% 0.010 007C* -0.820 7 -12 100 0.025% 0.010 020C* -0.820 20 -12 300 0.025% 0.010 035C* -0.820 35 -12 500 0.025% 0.010 Gauge 0 1 0 15 0.025% 0.010 002G* 0 2 0 30 0.025% 0.010 007G* 0 7 0 100 0.025% 0.010 02G* 0 30 0.025% 0.010 035G* 0 35 0 500 0.025% 0.010 035G* 0 35 0 500 0.025% 0.010 035G* 0 70 0 1000 0.025% 0.010 <td>075MD</td> <td>-0.070</td> <td>0.07</td> <td>-1</td> <td>1</td> <td>-</td> <td>0.050%</td>	075MD	-0.070	0.07	-1	1	-	0.050%
001C -0.960 1 -14 15 0.025% 0.010 002C -0.960 2 -14 30 0.025% 0.010 007C* -0.820 7 -12 100 0.025% 0.010 020C* -0.820 20 -12 300 0.025% 0.010 035C* -0.820 35 -12 500 0.025% 0.010 Gauge 0 1 0 15 0.025% 0.010 002G* 0 2 0 30 0.025% 0.010 007G* 0 7 0 100 0.025% 0.010 020G* 0 35 0 500 0.025% 0.010 07G* 0 100 0.025% 0.010 07G* 0 1000 0.025% 0.010 07G* 0 1000 0.025% 0.010 07G* 0 1000 0.025% 0.010	350MD	-0.350	0.35	-5	5	-	0.050%
002C -0.960 2 -14 30 0.025% 0.010 007C* -0.820 7 -12 100 0.025% 0.010 020C* -0.820 20 -12 300 0.025% 0.010 035C* -0.820 35 -12 500 0.025% 0.010 Gauge 0 1 0 15 0.025% 0.010 002G* 0 2 0 30 0.025% 0.010 007G* 0 7 0 100 0.025% 0.010 02G* 0 30 0.025% 0.010 035G* 0 35 0 500 0.025% 0.010 070G* 0 70 0 1000 0.025% 0.010 100G* 0 1500 0.025% 0.010 200G* 0 3000 0.025% 0.010 350G* 0 350 0.025% 0.010 </td <td>Compound</td> <td>d</td> <td></td> <td></td> <td></td> <td></td> <td></td>	Compound	d					
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020C* -0.820 20 -12 300 0.025% 0.010 035C* -0.820 35 -12 500 0.025% 0.010 Gauge 001G* 0 1 0 15 0.025% 0.010 002G* 0 2 0 30 0.025% 0.010 007G* 0 7 0 100 0.025% 0.010 02G* 0 30 0.025% 0.010 035G* 0 35 0 500 0.025% 0.010 070G* 0 70 0 1000 0.025% 0.010 100G* 0 100 0 1500 0.025% 0.010 200G* 0 300 0.025% 0.010 350G* 0 350 0 5000 0.025% 0.010	002C	-0.960	2	-14	30	0.025%	0.010%
035C* -0.820 35 -12 500 0.025% 0.010 Gauge 001G* 0 1 0 15 0.025% 0.010 002G* 0 2 0 30 0.025% 0.010 007G* 0 7 0 100 0.025% 0.010 02G* 0 20 0 300 0.025% 0.010 035G* 0 35 0 500 0.025% 0.010 070G* 0 70 0 1000 0.025% 0.010 100G* 0 1500 0.025% 0.010 200G* 0 3000 0.025% 0.010 350G* 0 350 0 5000 0.025% 0.010	007C*	-0.820	7	-12	100	0.025%	0.010%
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070G* 0 70 0 1000 0.025% 0.010 100G* 0 100 0 1500 0.025% 0.010 200G* 0 200 0 3000 0.025% 0.010 350G* 0 350 0 5000 0.025% 0.010	020G*	0	20	0	300	0.025%	0.010%
100G* 0 100 0 1500 0.025% 0.010 200G* 0 200 0 3000 0.025% 0.010 350G* 0 350 0 5000 0.025% 0.010	035G*	0	35	0	500	0.025%	0.010%
200G* 0 200 0 3000 0.025% 0.010 350G* 0 350 0 5000 0.025% 0.010	070G*	0	70	0	1000	0.025%	0.010%
350G* 0 350 0 5000 0.025% 0.010	100G*	0	100	0	1500	0.025%	0.010%
	200G*	0	200	0	3000	0.025%	0.010%
400G* 0 400 0 6000 0.025% 0.010	350G*	0	350	0	5000	0.025%	0.010%
	400G*	0	400	0	6000	0.025%	0.010%
700G* 0 700 0 10000 0.025% 0.015	700G*	0	700	0	10000	0.025%	0.015%
Absolute							
001A 0.025 1.1 0.35 16 0.025% 0.010	001A	0.025	1.1	0.35	16	0.025%	0.010%
003A 0.025 3.5 0.35 50 0.025% 0.010	003A	0.025	3.5	0.35	50	0.025%	0.010%
007A* 0.070 7 1 100 0.025% 0.010	007A*	0.070	7	1	100	0.025%	0.010%
020A* 0.070 20 1 300 0.025% 0.010	020A*	0.070	20	1	300	0.025%	0.010%

^{*} Stainless steel isolated pressure sensor

Specified temperature range 18°C to 28°C / 65°F to 82°F

F.S. (full scale) is the numerical value of the positive pressure range. Accuracy includes hysteresis, nonlinearity, repeatability and reference standard uncertainty, 1 Year typical long-term stability, operated inside the rated temperature span and pressure range. Requiring frequently zeroing (Gauge/diff.) or entering of reference pressure (Absolute).

HPC600 • Handheld Pressure Calibrator



2222 Verus Street Suite C San Diego CA 92154 USA

Toll Free: 866.363.6634 Tel: 619.429.4545 Fax: 619.374.7012

Email: sales@calright.com http://www.calright.com



FUNCTIONAL SPECIFICATIONS

ressure; gauge / compound ranges
oar0.82 to 2, 10 or 20 osi12 to 30, 150 or 300
ressure; absolute ranges
oara
ngineering units (built-in)
Jser selectable
ressure accuracy reference temp. (18 to 28°C / 65 to 82°F)
/acuum±0.025% F.Ss. (full scale) is the numerical value of the positive pressure range. ccuracy includes hysteresis, nonlinearity, repeatability and reference tandard uncertainty, 1 Year typical long-term stability, operated inside the ated temperature span and pressure range. Requiring frequently zeroing gauge/compound) or entering of reference pressure (absolute).
ressure accuracy ambient temp. (-10 to 50°C / 14 to 122°F)
All pressure ranges±0.030% RDG + 0.015% F.S. /acuum±0.035% F.S. /s. (full scale) is the numerical value of the positive pressure range. ccuracy includes hysteresis, nonlinearity, repeatability and reference tandard uncertainty, 1 Year typical long-term stability, operated inside the ated temperature span and pressure range. Requiring frequently zeroing gauge/compound) or entering of reference pressure (absolute).
Display
CD
S232 communication interface
ConnectorLEMO erial0-5 VDC, 9600 baud, 8 data, no parity, 1 stop erotocol

mA range, input, output and sink	0 to 24 mA
mA accuracy, input	
mA accuracy, output/sink	±0.015% RDG + 2 μA
Transmitter supply	
Voltage measurement	0 to 30 VDC
Voltage accuracy	±0.015% RDG + 2mV
RTD range (ohms)	84 to 140 Ω
RTD accuracy	±0.015% RDG + 0.02 Ω
RTD range (temp.)	40 to 155°C / -40 to 311°F
RTD accuracy @ 0°C/32°F (temp	o.)±0.10°C/0.18°F
HART® resistor	250 Ω
Peak hold capture	50 milliseconds
Switch test input	
Temperature effect outside 18 to 28°C / 65 to	to 82°F ±0.001% F.S./°C.

Media compatibility

Dry, clean, non corrosive gasses

Environmental

Operating temperature	10 to 50°C / 14 to 122°F
Storage temperature	20 to 60°C / -4 to 140°F
Ingress protection rating	IP56

Pressure connection

Pressure overload

Overload alarm "OL" in display at approx. +20% F.S.

Power supply

Battery	8 x 1.5 VDC Alkaline
Battery type	
Battery lifetime More than 300 p	
Low battery indicator	Yes

Instrument dimensions (LxWxH)

Calibrator	203x102x61 mm / 8x4x2.4 in
HPC600 weight (incl. batter)	y) 920 g / 32.5 oz
Calibrator, shipping	.560x350x180 mm/ 22x13.8x7 in
Calibrator weight, shipping	3,2 kg / 113 oz

Miscellaneous

Compliance: EN 61326 : 2006 & CISPR 11, Edition 5.0 - 2009 Class "B"

Handheld Pressure Calibrator • HPC600



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Function / Feature	HPC600			
Single sensor high accuracy pressure calibrator	✓			
Automatic electrical pressure / vacuum pump system	✓			
mA measurement	✓			
mA output / source & sink	✓			
Voltage measurement	✓			
24 VDC transmitter supply	✓			
High speed pressure switch test	✓			
Temperature measurement with external RTD sensor	✓			
JOFRA APM pressure module connector	✓			
RS232 communication	✓			
On-line calculation of sensor error %	✓			
Automatic leak test timer function	✓			
High speed min/max hold	✓			
Display contrast adjustment				
Instrument setup lock				
Storage of 5 setups				
Setup of number of display windows / measurement channels				
Setup of temperature sensor RTD type				
Select display high or low resolution				
Setup of backlight timer				
HART resistor on/off				
Normal or dampened display update rate				



HPC600 • Handheld Pressure Calibrator



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HPC600 PRESSURE RANGES

This table shows the resolutions that can be obtained by the HPC calibrators throughout all engineering units.

HPC600 Ranges and Display Resolution					
Range		2.0 bar / 30 psi	10 bar / 150 psi	20 bar / 300 psi	
Engineering unit	Factor	FS value	FS value	FS value	
psi	1	30.000	150.00	300.00	
bar	0.06894757	2.0684	10.3421	20.684	
mbar	68.94757	2068.4	10342.1	20684	
kPa	6.894757	206.84	1034.21	2068.4	
MPa	.00689476	0.2068	1.03421	2.0684	
kg/cm ²	0.07030697	2.1092	10.5460	21.092	
cmH ₂ O@4°C	70.3089	2109.3	10546.3	21093	
cmH ₂ O@20°C	70.4336	2113.0	10565.0	21130	
mmH ₂ O@4°C	703.089	21093	n/a	n/a	
mmH ₂ O@20°C	704.336	21130	n/a	n/a	
inH ₂ O@4°C	27.68067	830.42	4152.1	8304.2	
inH ₂ O@20°C	27.72977	831.89	4159.5	8318.9	
inH ₂ O@60°F	27.70759	831.23	4156.1	8312.3	
mmHg@0°C	51.71508	1551.5	7757.3	15515	
inHg@0°C	2.03602	61.081	305.40	610.81	
Burst pressure		20 bar / 300 psi	20 bar / 300 psi	40 bar / 600 psi	
Proof pressure		4 bar / 60psi	14 bar / 200 psi	28 bar / 400 psi	

Proof pressure - maximum allowable pressure without a shift in calibration
Burst pressure - sensor damaged or destroyed, some risk of personnel injury
Absolute ranges - the data for the 2 bar / 30 psi and 10 bar / 50 psi ranges also applies to the absolute pressure versions of those ranges



Handheld Pressure Calibrator • HPC600





ORDERING INFORMATION

Order number			Description				
HPC					Туре		
6	500				Model		
					Pressure range		
		002 <i>A</i>	Ą		0.2 bar / 3 psi to 2 bar / 30 psi absolute		
		0020	-		-0.82 bar / -12 psi to 2 bar / 30 psi gauge/compound		
		010 <i>A</i>	A		0.2 bar / 3 psi to 10 bar / 150 psi absolute		
		0100	_		-0.82 bar / -12 psi to 10 bar / 150 psi gauge/compound		
		0200	-		-0.82 bar / -12 psi to 20 bar / 300 psi gauge/compound		
					Calibration certificate		
			G	i	NIST traceable calibration certificate		
					Accessories (Optional)		
				В	Rechargeable battery pack		
				I	Interface kit LEMO to RS232		
				Т	Temperature sensor Pt100		
					Sample order number		
HPC 6	500	0100	G	i BIT	HPC600, 10 bar, NIST traceable certificate, rechargeable battery package, interface kit, temperature sensor		

STANDARD DELIVERY (HPC Calibrator)

- HPC600 calibrator
- Padded soft carrying case
- Traceable calibration certificate (NIST) with pressure vacuum and electrical performance
- 8 x 1.5 volt batteries
- Adapter to 1/4" NPT female from 1/8" NPT male*
- Adapter to 1/4" BSP female from 1/8" NPT male*
- Quick connector set and 1 meter / 3 feet hose
- Test leads: red and black
- User manual



ACCESSORIES

Rechargable battery kit - Option B

The HPC600 is available with a set of 8 rechargeable AA batteries and a charger for 4 batteries.

Interface kit - Option I

Special LEMO to Sub D, RS232 interface cable for HPC600.

Temperature sensor - Option T

To utilize the themometer utility of the HPC600, a rug-gedized handheld temperature sensor is available. The sensor comes as a ready-to-use probe with handle and coiled cable with LEMO connector for HPC600. The sensor is buildt with a high accuracy Pt100 element, accuracy ±0.15°C / ±0.27°F. Sensor dimensions, without handle and cable, Ø4x200 mm/stainless steel.

Complete calibration systems

The HPC600 is delivered as a ready-to-test system, complete and equipped to meet your pressure calibration needs.

HPC600 • Handheld Pressure Calibrator



JOFRACAL calibration software

JOFRACAL calibration software ensures easy calibration of RTD's, thermocouples, transmitters, thermoswithes, pressure gauges and pressure switches. JOFRACAL can be used with all JOFRA calibration instruments. JOFRACAL does not support the 20 bar version. For date of availability contact your local representative. When used with ASM-800 signal multi scanner, JOFRACAL can perform a simultaneous semi automatic calibration on up to 24 pressure and/or temperature devices under test in any combination.

JOFRACAL software controls the complete calibration procedure, stores the results and provides a calibration audit trail through hard-copy certificates. All calibration data are stored for each sensor to monitor drift and optimise recalibration intervals. A scheduler feature allows planning of future calibrations.

Dirt, moisture or liquid?

If particles or liquid is expected in the system to be calibrated, we recommend using our"cleaning filter". The filter is attached with out use of tools, the build in o-rings ensure a tight system. The clear see-through design, makes it easy to see when cleaning is needed.

Part number 127887





AMETEK Test & Calibration Instruments
A business unit of AMETEK Measurement & Calibration
Technologies Division offering the following industry
leading brands for test and calibration instrumentation.

JOFRA Calibration Instruments
Temperature Calibrators
Portable dry-block calibrators, precision thermometers
and liquid baths. Temperature ranges from
-90°C(-130°F) to 1205°C(2200°F). Temperature sensors
for industrial and marine use.
Pressure Calibrators
Convenient electronic systems ranging from -25 mbar to
1000 bar - fully temperature-compensated for problemfree and accurate field use.
Signal Instruments
Process signal measurement and simulation for easy
control loop calibration and measurement tasks.

M&G Pressure Testers & Pumps
Pneumatic floating-ball or hydraulic piston dead weight
testers with accuracies to 0.015% of reading. Pressure
generators delivering up to 1,000 bar.

Lloyd Instruments

Materials testing machines and software from Lloyd Instruments guarantees expert materials testing solutions. The comprehensive program also covers Texture Analysers to perform rapid, general food testing and detailed texture analysis on a diverse range of foods and cosmetics.

Davenport Polymer Test Equipment Allows measurement and characterization of moisturesensitive PET polymers and polymer density.

Chatillon Force Measurement
The hand held force gauges and motorized testers
have earned their reputation for quality, reliability and
accuracy and they represent the de facto standard for
force measurement.

Newage Testing Instruments Hardness testers, durometers, optical systems and software for data acquisition and analysis.

Pub code SS-HPC600 Issue 1204



The Right Source For Your Test & Measurement Needs

2222 Verus Street Suite C San Diego CA 92154 USA
Toll Free: 866.363.6634 Tel: 619.429.4545 Fax: 619.374.7012
Email: sales@calright.com http://www.calright.com