

JOFRA PRESSURE CALIBRATORS

Product Selection Guide

J O F R A

pressure

calibration

instruments



*...because calibration is
a matter of confidence*

...because calibration is a matter of confidence



JOFRA APC Advanced Pressure Calibrator

This high accuracy pressure calibrator is user-friendly, extremely accurate, and expandable to meet multiple applications. Features such as RS232 capability, loop sourcing, scalability, 17 engineering units, switch test, min/max readings, and mA% calculations make this an invaluable calibration instrument.

- Available as an indicator or in a complete calibration system with pump, carrying case, and fittings
- Accuracy to $\pm(0.04\%$ of reading + 0.01% F. S.)
- Pressure range vacuum to 10,000 psi / 700 bar
- External APM pressure module capability
- Reads, sources, and scales transmitters
- Supplied with fittings for NPT and BSP threads

Publication No. SS-CP-2181, which is to be found at www.jofra.com

JOFRA CPC Compact Pressure Calibrator

This series of digital pressure calibrators is designed for accuracy and ease of use. The CPC has the features you need in a pressure test and calibration tool: 17 engineering units, switch test, min/max readings, and mA reading.

- Available as an indicator or in a complete system
- Accuracy to $\pm 0.05\%$ F. S.
- Pressure range vacuum to 200 psi / 15 bar
- Measures loop current to 24 mA
- Min/max readings and switch test function
- Supplied with fittings for NPT or BSP threads

Publication No. SS-CP-2180, which is to be found at www.jofra.com



JOFRA IPI Industrial Pressure Indicator

This handy instrument combines the ease of an analog gauge with the accuracy and easy-to-read display of a digital calibrator. The IPI offers a long battery life, high accuracy, and even serial communication. The accuracy of the IPI rivals that of a pressure calibrator and is temperature compensated for shop or machine room applications.

- Available as an indicator or with a pump in a complete system
- Accuracy to $\pm 0.05\%$ of F.S.
- Pressure range vacuum to 10,000 psi / 700 bar
- 17 different and 1 user-definable pressure units
- Min/max readings
- Ex Certified by CSA as conforming to relevant Canadian and USA standards

Publication No. SS-CP-2179, which is to be found at www.jofra.com

Ready-to-use pressure systems for the APC, CPC, and IPI calibrators

AMETEK offers the user several solutions for pressure generation. This line spans from a small pneumatic "bicycle" type pump to a hydraulic pump that generates up to 15,000 psi / 1,000 bar. These are durable pumps with features such as vernier valves, vent valves, manifold connections, swivel fittings, and optional O-ring materials and fittings making the pumps flexible to meet your calibration and testing applications.

For all pressure systems the pump and the indicator are separate systems. Therefore a replacement of the pump does not mean that you have to send the complete system for repair. Maintenance of the instrument is also made easy. Recalibration of the unit can be performed locally with an accurate pressure reference: No need to send the unit back to the manufacturer for recalibration. If you do require a factory calibration, the pump and indicator are independent and only the indicator needs to be returned.

JOFRA pressure calibrators are as standard delivered as individual indicators or as a complete calibration systems ready to use in a carrying case, including pump, hose, set of fittings, batteries, test leads, user manual, and a NIST traceable calibration certificate.

Pump system A
APC, CPC, and IPI



Pump system B
APC, CPC, and IPI



Pump system C
APC and IPI



Pump system D
APC and IPI



Pump system E
APC and IPI



Pump system F
APC and IPI



JOFRA Signal Calibrators as Pressure Calibrators

You may want to use one of the JOFRA Signal Calibrators in conjunction with a JOFRA APM module for pressure applications.

JOFRA AMC900 Advanced Multi-purpose Calibrator

This is one of the finest benchtop precision temperature, signal, and pressure calibrators available. Save money on maintaining all your signal, temperature, and pressure calibrators and devices yourself.



- Output: 0-100 mA, 0-100 VDC, -10-100 mV, TCs (13 types), RTDs (14 types), 5-4000Ω
- Input: 0-100 mV, TCs (13 types), RTDs (14 types), 5-4000Ω
- External APM pressure module capability
- STS temperature reference capability
- Accuracy to $\pm 0.016^{\circ}\text{C}$ / 0.029°F
- IEEE-488 and RS232 interface

Publication No. SS-CP-2380, which is to be found at www.jofra.com

JOFRA ASC300 Advanced Signal Calibrator

Substantial enough to cover all your needs for a process signal calibrator with superior accuracy and compact enough to fit into your tool box. Operate the instrument with one hand for easy field service, test, and calibration.



- Simultaneous input and output
- Fuseless protection on all inputs
- Graphical user interface with function keys
- Input and output: TCs (13 types), RTDs (14 types), 0-20 VDC, 0-24 mA, 5-4000Ω, 0-10 kHz, and pulse trains
- External APM pressure module capability
- Isolated read-back circuit with 24 VDC loop power
- Fully integrated in the JOFRACAL software

Publication No. SS-CP-2350, which is to be found at www.jofra.com

JOFRA APM Advanced Pressure Module

These pressure modules extend the usage of the JOFRA APC, ASC300, and AMC900. All APM modules contain the calibration data. Just connect the modules to the instrument and perform your measurement.



- Accuracy to $\pm 0.01\%$ F. S.
- Pressure range vacuum to 10,000 psi / 700 bar
- 62 different models
- Rugged and dependable for field or lab use
- Gauge, absolute, vacuum, differential, and combination modules
- Supplied with fittings for NPT and BSP threads

Publication No. SS-CP-2190, which is to be found at www.jofra.com



AMETEK Calibration Instruments is one of the world's leading manufacturers and developers of calibration instruments for temperature, pressure and process signals as well as for temperature sensors both from a commercial and a technological point of view.

Headquarter:

AMETEK Denmark A/S
(Sales, Europe and the Middle East)
Gydevang 32-34 • 3450 Allerød • Denmark
Tel: +45 4816 8000 • ametek@ametek.dk

www.ametekcalibration.com
www.jofra.com

Information within this document is subject to change without notice.
©2006, by AMETEK, Inc., www.ametek.com. All rights reserved.
Pub code P-CP-2004-US Issue 0605



AMETEK Calibration Instruments offers a complete range of calibration equipment for temperature, pressure, and signal - including calibration software.

JOFRA Temperature standards

Portable precision thermometer. Dry-block and liquid bath calibrators: 4 series, with more than 20 models - featuring speed, portability, accuracy and advanced documenting functions with JOFRACAL temperature calibration software.

JOFRA Pressure standards

Convenient electronic systems ranging from -1 to 700 bar (25 inHg to 10,000 psi) - multiple choices of pressure ranges, pumps and accuracies, fully temperature-compensated for problem-free and accurate field use.

JOFRA Signal calibration

Process signal measurement and simulation for easy control loop calibration and measurement tasks - from handheld field instruments for multi or single signals to laboratory reference level bench top instruments.

JOFRA / JF Marine Instruments

A complete range of calibration equipment for temperature, pressure and signal, approved for marine use under the brand name JOFRA and JF Instruments.

FP temperature sensors

A complete range of temperature sensors for industrial and marine use.

*..because calibration is
a matter of confidence*

Sales offices:

AMETEK T&C I - Americas (Sales, The Americas)
Tel: +1 518 689 0222 • jofra.info@ametek.com

AMETEK Singapore Pte. Ltd. (Sales, Asia)
Tel: +65 6 484 2388 • aspl@ametek.com.sg

AMETEK Inc. Beijing Rep. Office (Sales, China only)
Tel: +86 10 8526 2111 • jofra@ametek.com.cn

AMETEK GmbH (Sales, Germany only)
Tel: +49 2159 91360 • info@ametek.de

AMETEK Lloyd Instruments (Sales, UK only)
Tel: +44 (0) 1489 486 404 • jofra@ametek.co.uk