

pressure

JOFRA[®] calibration

» **Accuracies to 0.01% of FS**

Performance to meet most application requirements

» **Several pressure references**

Gauge and absolute pressure references available

» **Rugged construction**

Engineered for use in the laboratory or in the field

» **Plug and pressurize**

Calibrators recognize range and reference of the modules for ease use

» **Multiple applications**

Use a module with one or more JOFRA calibrators or use one or more modules with one JOFRA calibrator

» **Compatible with you calibrator**

The APM-H module is compatible with AMC900, AMC910, ASC300, ASC301, APC, HPC500, HPC502 and HPC600 calibrators

» **Complete marine program**

Part of a complete program of marine approved temperature, pressure and signal calibrators; including temperature sensors

ISO 9001 Manufacturer

Specification Sheet
SS-APM-H

Advanced Pressure Module APM-H Series



The APM-H series of pressure modules offers the functionality and flexibility needed to perform pressure calibrations with your multi-purpose or multifunction signal calibrator.

Expand the ranges to meet all of your pressure calibration applications by using JOFRA APM-H modules.

The APM-H series are compatible with the AMC900, AMC910, ASC300, ASC301, APC, HPC500, HPC502, HPC600 calibrators. These units are available in a series of ranges, units, and pressure references. From vacuum to absolute pressure, AMETEK covers any application with the pressure modules to meet your calibration needs.

There are different accuracies, ranges, and references designed to offer the exact specifications needed.

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

When combined with the JOFRA calibrators and pump systems these modules make for a powerful arsenal of calibration tools. And, it is always possible to add more as the calibration needs changes.

 **CALRIGHT
INSTRUMENTS**

The Right Source For Your Test & Measurement Needs

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Toll Free: 866.363.6634 Tel: 619.429.4545 Fax: 619.374.7012

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

Compatible with following products:



APC



ASC300 & ASC301



HPC500, HPC502 & HPC600

STANDARD DELIVERY

- APM-H Module
- Adapter fitting for NPT and BSP threads
- Communication cable
- NIST traceable calibration certificate



AMC900 & AMC910

**JOFRA APM-H Series
Advanced Pressure Module**

The JOFRA APM-H series are high accuracy laboratory units: 0.01% of F.S. The outstanding performance makes these modules perfect for use as an electronic pressure reference at the top of your calibration hierarchy. These modules are easy to work with and easy to transport.



Resolution6 digits (2 to 10 ppm depending on range)
 Dimensions 99 x 55 x 55 mm / 3.9 x 2.18 x 2.18 in
 Weight 450 g / 1 lb
 Pressure connections 7/16-20 SAE female
 Conversion adapter to 1/8" NPT and BSP female
 Electrical connection 9 pole D-sub, male
 Communication cable module to ASC300/AMC900/
 AMC910/HPC
 Cable length 24 in / 60 cm
 Warm up 10 minutes to rated accuracy
 Reading rate 50 per second
 Display rate 2 per second
 Compliance - CE standards EN 50081-1, EN 50082-1
 EN 50081-2, EN 50082-2
 The JOFRA APM modules are type approved by Det Norske Veritas. Find the certificate at www.jofra.com
 Approval, Certificate no. A-10549

Model	Pressure type	Pressure Range* ¹ PSI	Pressure Range* ¹ BAR	Pressure Port* ¹	Reference Port* ²	Over Pressure* ³	Reference Accuracy* ⁴	6 month accuracy* ⁵	Part number
15 psi* ⁶	Gauge	15.0000	1.03427	DRY	DRY	x 1.5	0.003%	0.010%	APM015PGHG
50 psi	Gauge	50.0000	3.44756	DRY	DRY	x 1.5	0.003%	0.010%	APM050PGHG
100 psi	Gauge	100.000	6.89512	DRY	DRY	x 1.5	0.003%	0.010%	APM100PGHG
500 psi	Gauge	500.000	34.4756	DRY	DRY	x 1.5	0.003%	0.010%	APM500PGHG
1000 psi	Gauge	1000.00	68.9513	DRY	DRY	x 1.5	0.003%	0.010%	APM01KPGHG
15 psia* ⁶	Absolute	15.0000	1.03427	DRY	N/A	x 1.5	0.003%	0.010%	APM015PAHG
50 psia	Absolute	50.0000	3.44756	DRY	N/A	x 1.5	0.003%	0.010%	APM050PAHG
100 psia	Absolute	100.000	6.89512	DRY	N/A	x 1.5	0.003%	0.010%	APM100PAHG
500 psia	Absolute	500.000	34.4756	DRY	N/A	x 1.5	0.003%	0.010%	APM500PAHG
1000 psia	Absolute	1000.00	68.9513	DRY	N/A	x 1.5	0.003%	0.010%	APM01KPAHG
3000 psia	Absolute	3000.00	206.854	DRY	N/A	x 1.25	0.003%	0.010%	APM03KPAHG

- Note *1 Non isolated transducer - dry air or non-corrosive gas compatible media only
- Note *2 Media compatibility on pressure or reference port side of the module - DRY indicates dry air or non-corrosive gas as compatible media.
- Note *3 Applying steady pressure up to the specified overpressure will not destroy or change performance of the module
- Note *4 Reference accuracy is expressed as % F.S. and includes only linearity, hysteresis, and repeatability at laboratory conditions.
- Note *5 6 month accuracy - expressed as % F.S. Includes linearity, repeatability, hysteresis, and temperature compensation 15 to 45°C (59 to 113°F).
- Note *6 All ranges less than 30 psi (2 bar) specify physical orientation of use.

For extended pressure ranges, please see JOFRA APM Mk.II pressure modules.
 APM Mk.II are available in pressure ranges from 25 mbar / 0.4 psi to 700 bar / 10,000 psi FS.
 In the APM Mk.II range, stainless steel membrane isolated units are available, for aggressive medias.

ACCESSORIES

Number	Description
SPK-APM-001	APM-H Communication cable to JOFRA products APC, HPC, ASC300, AMC900 and AMC910
SPK-APM-002	APM Communication kit for PC
124673	Carrying case for APM-H applications 230 x 440 x 750 mm / 9.1 x 17.3 x 29.5 in
125106	Carrying case for APM-H applications 188 x 440 x 560 mm / 7.4 x 13.8 x 22 in

Please note that the carrying case is delivered without any cutouts

Fittings to connect APM-H modules with pump systems

System A

11-90067 Fitting 1/8" NPT male to 1/4" NPT male

System B

11-90067 Fitting 1/8" NPT male to 1/4" NPT male

System C

12-90135 Fitting 1/8" NPT male to 1/8" NPT male

System D

11-90109 Fitting 1/4" BSP male to 1/4" NPT female

11-90067 Fitting 1/8" NPT male to 1/4" NPT male

Both 11-90109 and 11-90067 are needed to work with APM-H

System E

11-90109 Fitting 1/4" BSP male to 1/4" NPT female

11-90067 Fitting 1/8" NPT male to 1/4" NPT male

Both 11-90109 and 11-90067 are needed to work with APM-H

System F

T-134 Union Body-1/4" NPT Female for manifold pump T

11-90067 Fitting 1/8" NPT male to 1/4" NPT male

Both T-134 and 11-90067 are needed to work with APM-H



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 problem-free 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 moisture-sensitive 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.



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