

Automatic Hydraulic Pressure Calibrator

AHC10000



- ✓ *Reduces Calibration Time by 40%*
- ✓ *On-Line Pressure Regulation compensate for Ambient Temperature Effect*
- ✓ *Pressure Control Stability to 0.01% Full Scale*
- ✓ *Accuracy of 0.05% F.S (optional 0.025% or 0.01% F.S)*
- ✓ *Execute 20 Points Test on a 1000 Bar Transmitter in Minutes!!!*
- ✓ *Temperature Compensated from 0 to 50 Deg C*
- ✓ *5 Engineering Units*
- ✓ *Built-in Hydraulic Screw-press, no shop-air or gas tank require*
- ✓ *Automated Pressure Switch Test*
- ✓ *Interchangeable Pressure Transducer*

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SPECIFICATION AHC10000

Range/Accuracy/Resolution

Accuracy Single Range	:	0.05% F.S (optional: 0.025% F.S or 0.01% F.S one year)
Optional Single Range	:	0-20, 0-35, 0-70, 0-140, 0-200, 0-350, 700, 1000 Bar.
Operating Mode	:	Gauge or Absolute
Display Resolution	:	5 digits for 0.05% F.S and 6 digits for 0.025% F.S or better

Pressure Control

Pressure Generation	:	Screw-press with Micro-Stepping Precision Motor
Control Stability	:	0.01% of Full Scale
Stability Time	:	less than 45 seconds.
Control Speed (0-100%)	:	90 seconds
Control Volume	:	25cc optimum (pre-filled DUT)
Lowest Control Pressure	:	1 Barg (0.1 Mpa gauge)
Engineering Unit	:	Psi, Kpa, Mpa, Kg/cm ² , Bar .
Pressure connection	:	1/2", 3/8" or 1/4" BSP Female
Medial Compatibility	:	Non corrosive Liquid compatible to 316 Stainless Steel 15 – 20 SAE oil

General

Warm up time	:	10 minutes
Display	:	¼ VGA Monochrome Display (320x240 pixels) with 9 keypads
Electrical Input	:	4-20 Milli-amp with Loop Power.
Accuracy	:	0.05% Full Scale + 1 LSD.
Pressure Switch Test	:	Non-voltage Input, max 24 Vdc
Communication Port	:	RS232
Power Supply	:	230 Vac, 50/60 Hz @ 5 Amp
Operating Temperature	:	0 to 50 °C
Unit Size	:	580 x 250 x 400 mm
Weight	:	22Kg (excluding carrying case)

Note: Accuracy Statement include: Linearity, Hysteresis, Drift and Temperature Range from 0-50 Deg C
Recommended Re-Calibration of the equipment for a period of 1 year.

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SPECIFICATION AHC SERIES

AHC is a Precision Hydraulic Pressure Controller/Calibrator for hydraulic pressure operation from 0.1 to 1000 Bar gauge or absolute mode. External Reference Digital Pressure Gauge with display accuracy of 0.05% F.S. External Pressure transducer without display is used on a 0.025% and 0.01% F.S unit.

With our Precision Micro-Stepping Motor and screw press, high control stability of 0.01% F.,S or better is achievable. There isn't any pressure turn-down ratio restriction with the use of external interchangeable pressure transducers. As low as 1 Barg or 0.1 Mpa is controllable and therefore it is an ideal system for future expansion by simply replacing it with another range of pressure sensor.

No shop-air is require to drive the gas to liquid booster (in certain design) , resulted user friendly and less noise being generated during the "pumping action".

Sequencing program allow user to perform up to 20 test- points (ascending and descending). With the standard PC window based software, user find it easy to configure the DUT, perform a Automatic Calibration of DUT and printing of Calibration Report. All these is done within a few minutes!!!

Ordering Information:

Single Range: AHC-20 Bar, AHC-35 Bar, AHC-70 Bar,
AHC-140 Bar, AHC-200 Bar, AHC-400 Bar.

Optional: AHC-700 Bar, AHC-1000 Bar

Each Unit Include:

- 1) Power Cord
- 2) Calibration Certificate
- 3) Operating Manual
- 4) Tubing / Fittings and Adaptors
- 5) One Pressure Transducer
- 6) English PC Window based Software
- 6) Carrying Case

Due to our policy of continuous improvement, all specifications in this document are subject to change without notice

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