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Quick Guide Test Instruments

1084, 3" TEST GAUGE	1082, 4 1/2", 6", 8 1/2" TEST GAUGE	TYPES 2089, 2086, 2084 PRECISION DIGITAL TEST GAUGES	TYPE ATE-2 LCD DIGITAL CALIBRATOR
			
<p>ACCURACY ASME B 40.100 Grade 2A ($\pm 0.5\%$ of span)</p>	<p>ACCURACY ASME B 40.100 Grade 3A ($\pm 0.25\%$ of span)</p>	<p>ACCURACY $\pm 0.05\%$, 0.10% or 0.25% of span</p>	<p>PRESSURE MEASUREMENT ACCURACY ± 0.025, 0.05 and 0.1% of span</p>
<p>DIAL SIZE 3"</p>	<p>DIAL SIZE 4 1/2", 6", 8 1/2"</p>	<p>CASE SIZE 3"</p>	<p>PRESSURE RANGES 0/0.25 in.H₂O through 0/10,000 psi</p>
<p>CASE MATERIAL 300 series polished stainless steel</p>	<p>CASE MATERIAL Aluminum, phenolic, polypropylene</p>	<p>CASE MATERIAL 300 Series stainless steel</p>	<p>PRESSURE TYPES Gauge, compound, vacuum, absolute and differential</p>
<p>MATERIAL 316 stainless steel</p>	<p>WETTED MATERIAL Bronze/brass, Monel</p>	<p>WETTED MATERIALS 316 stainless steel</p>	<p>TEMPERATURE COMPENSATION 20-120°F</p>
<p>SENSING ELEMENT Bourdon tube</p>	<p>SENSING ELEMENT Bourdon tube</p>	<p>SOCKET SIZE 1/4 NPT, 1/8 NPT (others on application)</p>	<p>TEMPERATURE MEASUREMENT Supports most common RTD-type temperature probes and thermocouples</p>
<p>CONNECTION 1/4 NPT lower only</p>	<p>CONNECTION 1/4 NPT (standard) and 1/2 NPT lower or back (optional)</p>	<p>CONNECTION Lower (6 o'clock), top, side</p>	<p>DIMENSIONS 8.7 in. (L) x 5.1 in. (W) x 3.8 in. (H)</p>
<p>RANGES Vac. to 1000 psi</p>	<p>RANGES Vac. to 10,000 psi</p>	<p>RANGES Vac., 5 psi thru 7000 psi including compound and absolute</p>	<p>WEIGHT Max. 2.4 lbs. w/2 pressure modules installed</p>
<p>TEMPERATURE ERROR <.005% per degree F above or below reference temperature of 68°F (20°C)</p>	<p>TEMPERATURE ERROR <.005% per degree F above or below reference temperature of 68°F (20°C)</p>	<p>POWER SOURCE Three AAA alkaline batteries</p>	<p>CASE MATERIAL High impact PC-ABS</p>
<p>TEMPERATURE ERROR <.005% per degree F above or below reference temperature of 68°F (20°C)</p>	<p>TEMPERATURE ERROR <.005% per degree F above or below reference temperature of 68°F (20°C)</p>	<p>BATTERY LIFE 1000 hrs.</p>	<p>SENSOR MODULE CAPACITY 2 bays for Ashcroft AM2 sensor modules</p>
<p>TEMPERATURE ERROR <.005% per degree F above or below reference temperature of 68°F (20°C)</p>	<p>TEMPERATURE ERROR <.005% per degree F above or below reference temperature of 68°F (20°C)</p>	<p>OPERATING TEMPERATURE Temperature corrected from 0/150°F (-18/63°C)</p>	<p>DISPLAY 1.5" x 2.5" graphic LCD display with backlight. Can display readings from 2 simultaneous modules</p>
<p>TEMPERATURE ERROR <.005% per degree F above or below reference temperature of 68°F (20°C)</p>	<p>TEMPERATURE ERROR <.005% per degree F above or below reference temperature of 68°F (20°C)</p>	<p>STORAGE TEMPERATURE -40/180°F (-40/82°C)</p>	<p>ELECTRICAL CONNECTION 4mm banana jacks (one set of test leads provided with each ATE-2)</p>
<p>TEMPERATURE ERROR <.005% per degree F above or below reference temperature of 68°F (20°C)</p>	<p>TEMPERATURE ERROR <.005% per degree F above or below reference temperature of 68°F (20°C)</p>	<p>AGENCY APPROVALS CE, EN 50082-1 (1997), FM, CSA</p>	<p>UPDATE RATE 100 ms (nominal) with one module installed</p>
<p>TEMPERATURE ERROR <.005% per degree F above or below reference temperature of 68°F (20°C)</p>	<p>TEMPERATURE ERROR <.005% per degree F above or below reference temperature of 68°F (20°C)</p>	<p>LOOK FOR THESE MARKS ON OUR PRODUCTS</p> 	<p>RESOLUTION $\pm 0.0015\%$ of span, 66,000 counts (max)</p>
<p>TEMPERATURE ERROR <.005% per degree F above or below reference temperature of 68°F (20°C)</p>	<p>TEMPERATURE ERROR <.005% per degree F above or below reference temperature of 68°F (20°C)</p>	<p>DAMPING Programmable filtering levels one through 16</p>	<p>SERIAL INTERFACE Type: USB</p>
<p>TEMPERATURE ERROR <.005% per degree F above or below reference temperature of 68°F (20°C)</p>	<p>TEMPERATURE ERROR <.005% per degree F above or below reference temperature of 68°F (20°C)</p>	<p>AGENCY APPROVALS Standard: CE, UL, FCC Optional: FM, CSA, ATEX</p>	<p>AGENCY APPROVALS Standard: CE, UL, FCC Optional: FM, CSA, ATEX</p>
<p>TEMPERATURE ERROR <.005% per degree F above or below reference temperature of 68°F (20°C)</p>	<p>TEMPERATURE ERROR <.005% per degree F above or below reference temperature of 68°F (20°C)</p>	<p>Ideal for use when a quality analog pocket test gauge is required.</p>	<p>Field or laboratory precision pressure standard for calibrating or setting other instruments and devices. Also used for high accuracy temperature or pressure measurement in critical processes.</p>
<p>TEMPERATURE ERROR <.005% per degree F above or below reference temperature of 68°F (20°C)</p>	<p>TEMPERATURE ERROR <.005% per degree F above or below reference temperature of 68°F (20°C)</p>	<p>1/4% full scale accuracy for test and laboratory applications.</p>	<p>Superior accuracy for test and laboratory applications.</p>
<p>TEMPERATURE ERROR <.005% per degree F above or below reference temperature of 68°F (20°C)</p>	<p>TEMPERATURE ERROR <.005% per degree F above or below reference temperature of 68°F (20°C)</p>	<p>Superior accuracy for test and laboratory applications.</p>	<p>Field or laboratory precision pressure standard for calibrating or setting other instruments and devices. Also used for high accuracy temperature or pressure measurement in critical processes.</p>

**ST-2A LCD
DIGITAL INDICATOR**


PRESSURE MEASUREMENT ACCURACY
±0.025, 0.05 and 0.1% of span

PRESSURE RANGES
0/0.25 in.H₂O through 0/10,000 psi

PRESSURE TYPES
Gauge, compound, vacuum, absolute and differential

TEMPERATURE COMPENSATION
20-120°F

TEMPERATURE MEASUREMENT
Supports most common RTD-type temperature probes and thermocouples

DIMENSIONS
10.9 in. (L) x 6.74 in. (W) x 4.0 in. (H)

PANEL CUTOUT
6.56 in. x 3.53 in.

WEIGHT
Max. 4.08 lbs. w/2 pressure modules installed

CASE MATERIAL
High impact ABS

SENSOR MODULE CAPACITY
2 bays for Ashcroft AQS "Quick Select" sensor modules

DISPLAY
2 line LCD, 0.37 in. height per line. Can display simultaneous readings from 2 modules.

ELECTRICAL CONNECTION
Standard banana jacks

OPERATING TEMPERATURE RANGE
32° to 120°F

UPDATE RATE
130 ms (nominal) with one sensor installed

RESOLUTION
±0.002% of span, 60,000 counts (max)

ELECTRICAL MEASUREMENTS
0-20 mA or 0-30 Vdc

Laboratory precision pressure standard for calibrating or setting other instruments and devices. Also used for high accuracy temperature or pressure measurement in critical processes.

**TYPE 1305D
DEADWEIGHT TESTER**


ACCURACY
±0.1% of reading

OPERATING PRESSURE
15 psi to 10,000 psi

OPERATING MEDIA
1305D: SAE 20 weight automotive or machine oil

1305DH
Phosphate-based or glycol fluids

O-RING MATERIAL
1305D: Buna-N (D series)

1305DH
Ethylene Propylene (DH Series)

PISTON AND CYLINDER MATERIAL
Stainless steel

WEIGHT MATERIAL
Non-magnetic die cast zinc

RESERVOIR VOLUME
Approximately 1.5 pints (0.7 liter)

Special "CD-5" Certification package available (see Price Sheet TE/PS-1)

Primary deadweight pressure standard and hydraulic pressure source for calibration of other pressure instruments.

**TYPE 1327D, 1327CM
GAUGE COMPARATOR**


OPERATING PRESSURE
0-10,000 psi (maximum) (0-60,000 kPa)

OPERATING MEDIA
Std.: SAE 20 weight automotive or machine oil
Opt.: Phosphate-based or glycol fluids
Distilled water for oxygen service

O-RING MATERIAL
Standard: Buna N (D Series)
Optional: Ethylene Propylene (DH Series)

RESERVOIR VOLUME
Approximately 1.5 pints (0.7 liter)

SPECIFICATIONS TYPE 1327DG

ACCURACY
±0.25% F.S.

GAUGE TYPE
Ashcroft 4½ inch Type 1082 gauges with temperature compensation

Special "CD-4" Certification package available (see Price Sheet TE/PS-1)

SPECIFICATIONS TYPE 1327CM

ACCURACY
±0.1% F.S.

GAUGE TYPE
Ashcroft 6-inch Type A4A with temperature compensation

TEMPERATURE COMPENSATION
-25°F to +125°F (will maintain ±0.1% F.S. accuracy)

Primary deadweight pressure standard and hydraulic pressure source for calibration of other pressure instruments.

**MODEL PT, DUAL DISPLAY
LCD DIGITAL INDICATOR**


PRESSURE MEASUREMENT ACCURACY
±0.025, 0.05 and 0.1% of span

PRESSURE RANGES
0/0.25 in.H₂O through 0/10,000 psi

PRESSURE TYPES
Gauge, compound, vacuum, absolute and differential

TEMPERATURE MEASUREMENT
Supports most common RTD-type temperature probes

DIMENSIONS
7.72 in. (L) x 6 in. (W) x 2.95 in. (H)

PANEL CUTOUT
5.4 in. x 2.68 in.

WEIGHT
Depending on configuration
Max. <4 lbs. w/2 sensors and battery pack

CASE MATERIAL
High impact ABS

SENSOR CAPACITY
2 bays for Ashcroft PPT sensors

DISPLAY
5 digit, 2 line LCD, 0.38 in. height per line. Can display simultaneous readings from 2 modules.

OUTPUT
Full function RS-232

OPTIONS
Backlit Display; Built-in NiCad Rechargeable Batteries; Handle; Panel Mounting Brackets

OPERATING TEMPERATURE RANGE
32° to 120°F

TEMPERATURE COMPENSATION
20-120°F

UPDATE RATE
130 ms (nominal) with one sensor installed

RESOLUTION
±0.002% of span, 60,000 counts (max)

Laboratory precision pressure standard for calibrating or setting other instruments and devices. Also used for high accuracy temperature or pressure measurement in critical processes.

**TYPE AVC-1000 & 3000
VOLUME CONTROLLER**



TYPE

AVC-1000 / AVC-3000

RANGE (psi)

vacuum-1000 / vacuum-3000

RESOLUTION (psi)

0.00025 / 0.0005

VOLUME CHANGE (cubic inches)

3.5 / 2.5

MECHANICAL ROTATION (turns)

31 / 61

PROOF PRESSURE (psi)

3000 / 6000

BURST PRESSURE (psi)

6000 min / 12,000 min

OPERATING TEMPERATURE RANGE

20-120°F / 20-120°F

OPERATING MEDIA

Clean, dry noncorrosive gas such as compressed air or nitrogen

CONSTRUCTION

Aluminum body, stainless steel, brass
Teflon, Delrin and Buna N

Added to any pneumatic calibration system, the VC works as a "fine tune" device to achieve specific test points not easily attained with the use of a regulator alone. Used in the calibration of any pneumatic pressure instrument up to 3000 psi.

**TYPE A4A PRECISION
DIAL PRESSURE GAUGE**



ACCURACY

±0.10% of span – ASME B40.1, Grade 4A

CASE

Cast aluminum solid front

DIAL SIZE

6", 8 1/2", 12" & 16"

POINTER TRAVEL

350° (15-30,000 psi)
300° (40,000-50,000 psi)
270° (60,000-100,000 psi)

BOURDON TUBE

Bleeder tipped

RANGES

Gauge, compound, vacuum & absolute
0-15-0/100,000 psi

0.1% full scale accuracy is ideal for test and laboratory applications.

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