

Type ST-2A Digital Indicator



FEATURES

- Measurement of pressure, temperature, voltage and current
- Accuracy ratings of ±0.1, 0.05% and 0.025% F.S. (pressure)
- Pressure ranges from 0.25 inches of water to 10,000 psi
- Interchangeable pressure and temperature modules
- Multiple engineering units
- Temperature measurement with most common RTDs and thermocouples
- Programmable damping
- Tare capability
- · Display hold
- RS232 two-way communications
- Standard N.I.S.T.-traceable certificate of calibration

The ST-2A is the perfect bench companion product to the Ashcroft® ATE-100 field handheld calibrator. This bench top (or panel mounting) package shares the same pressure and temperature modules and interfaces with the same software packages as the Ashcroft ATE-100. An intuitive menu- driven user interface puts all of the ST-2A's power at the simple press of a key. It uses the AQS (Ashcroft Quick-Select™) modular sensor system to provide the ultimate in measurement flexibility.

Now you can purchase a calibration system to serve your field and bench mounting requirements while enjoying the significant cost savings gained through the availability of common pressure modules and software.

SPECIFICATIONS

Standard Display: Alphanumeric LCD, 0.37-inch height, 2 lines, 16 characters/line

Optional Display: Backlit LCD alphanumeric with 2 lines and 16 characters/line

Display Resolution: ±0.002% of span, 60,000 counts (max)

Display Update Rate: 130ms (nominal) with one sensor installed

Engineering Units: psi, in.H₂O, in.Hg, ftSW, bar, mbar, kPa, MPa, mmHg, cmH2O, mmH₂O and kgcm² and any single user-programmable engineering unit

Damping: Programmable averaging from zero through 16 consecutive readings

Standard Operating Range: 32° to 120°F (0 to

Compensated Range: 20° to 120°F (-7° to +49°C)

Reference Temperature: 70 ±3°F

Standard Temperature Effect: ±0.004% of span per degree Fahrenheit over the compensated range

Optional: AQS-2 Quick-Select modules are available calibrated to maintain rated accuracy over the 20° to 120°F (-7° to +49°C) compensated temperature range.

Storage Limits: -4°F to +158°F (-20° to +70°C) Electrical Sourcing Specification: 24 Vdc at 25mA Electrical Measurement Specification:

Temperature Effects Electrical Measurement: ±0.001% of span per °F over the compensated range

Weight: ST-2A Base unit: 3.0 lb (1.4 kg)
Housing: Molded, high-impact ABS case
Electrical Connections: Standard banana jacks
Optional Battery Power Supply: 5 "AA" nicads with built-in charger or 5 "AA" alkaline (non-rechargeable)

External Power Supply: AC adaptor 9 Vdc, 500mA

Portable Operation: 20 hours with optional backlight off, 2 hours with backlight on

Warm-up: 5 minutes for rated accuracy (maximum), 30 minutes for complete stability

RS232 Serial Interface: with 9-pin D type at 300, 1200, 2400, 9600 baud.

Field Calibration: Calibration module and proper pressure and electrical standards are required.

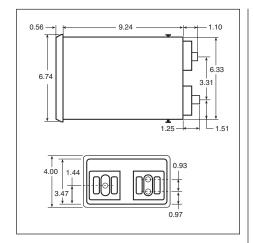
Optional Data Logging Capacity:

Standard measurements: 714 records
Date/time stamped measurements: 384 records
Provides prompts for storage of calibration
history information, including instrument tags,
As Found/As Left data and corresponding
ambient temperature





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STANDARD RANGES

AQS-1 "H₂0 (gauge/ differential pressure) 0.25* 0.5* 1.0* 2.0*	Other Engineering Units** psi in. H ₂ O
0.5* 1.0*	
3.0* 5.0* 10* 15* 25* 50* 100* 150* 200*	in. Hg ftSW Bar mBar kPa mPa mPa mmHg cmH ₂ O mgH ₂ O kg/cm ² User Selectable **Note: Engineering units identified above are accessible through the unit select feature. However, readout will default to the primary unit of measure on start-up. Sensor modules scaled in primary units other than in. H ₂ O (AQS-1) or psi (AQS-2) are also available. Consult factory.
±0.125* ±0.25* ±0.5* ±1.0* ±1.5* ±2.5* ±7.5* ±25* ±25* ±25* ±25* ±25* ±25* ±40* ±100* ated, for clea	n dry gas only
	5.0* 10* 15* 25* 50* 100* 150* 200* ±0.125* ±0.5* ±1.0* ±1.5* ±2.5* ±2.5* ±25* ±5.0* ±7.5* ±12.5* ±25* ±50* ±7.5* ±100*

