

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:** $\pm 0.002\%$ 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 49°C)
- Compensated Range:** 20° to 120°F (-7° to +49°C)
- Reference Temperature:** 70 ± 3 °F
- Standard Temperature Effect:** $\pm 0.004\%$ 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:**
- | Input (volts) | Accuracy |
|---------------|--------------------|
| 0/10 Vdc | $\pm 0.025\%$ F.S. |
| 0/30 Vdc | $\pm 0.10\%$ F.S. |
| Input (mA) | Accuracy |
| 0/20mA | $\pm 0.03\%$ F.S. |
- Temperature Effects Electrical Measurement:** $\pm 0.001\%$ 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

