

Ashcroft Test Gauges

- Rugged & Portable
- 0.05% FS Total Error Band
- 0.66" Display Characters
- NEMA 4, IP65 Stainless Steel Case
- Selectable Damping, Update Rate, Engineering Units, Languages
- Meets ASME B40.7



▲ 2089

These Precision Digital Test Gauges are available with 0.05%, 0.1% or 0.25% total error band (TEB) accuracy. TEB accuracy includes the effects of linearity, hysteresis, repeatability and temperature from 0 to 150°F. Ashcroft uses the conservative terminal point accuracy method for TEB. This allows rezeroing to eliminate sensor offset. All points between zero and full scale remain within stated accuracy.

SPECIFICATIONS

| | |
|-------------------------|--|
| Dial: | 3" |
| Case: | 300 series stainless steel, electroplated, weatherproof |
| Proof pressure: | 2X gauge pressure |
| Display: | 4 1/2" digit backlit LCD |
| Bargraph: | 10 segment % of range |
| Temperature: | -18 to 63°C (0-150°F) |
| Battery: | 3 AAA, >1000 hours |
| EMI: | CE EN50082-1 (1997) |
| Keypad Functions | |
| Engineering Units: | psi, "Hg, "H ₂ O, ftSW, Bar, mBar, kPa, mPa, mmHg, cmH ₂ O, mmH ₂ O, kg/cm ² |
| Update Rate: | 10/sec, 5/sec, 2/sec, 1/sec |
| Auto off: | 2, 5, 15, 30 min, never |
| Dampening: | None, 2, 4, 6, 8 readings |
| Min/Max: | Stores min/max values when displayed |
| Zero/Clear: | Zeroes display or clears min/max values |
| Backlight: | on/off, 10 sec., 30 sec., 1 min., 5 min. |
| Language: | English, Spanish, French, Italian, German, Portuguese, Dutch |
| Contrast: | Seven levels |
| Calibration: | 10 points, password protected |
| Configuration: | Scroll thru menu & option choices |

ORDERING INFORMATION

To Order - Insert Code for Each Letter to Select Catalog Number.
Example AS/302089SD0L100#XB1

AS/30 **A** **B** **C** **D** **E**

| | |
|------------------------|--|
| A Model | D Range (include units suffix) |
| 2089 0.05% FS accuracy | See table below |
| 2086 0.10% FS accuracy | E Options (X followed by 2 digit codes) |
| 2084 0.25% FS accuracy | B1 Black rubber boot |
| B Wetted Parts | B2 Orange rubber boot |
| SD 316 stainless steel | NH Metal Tag wired to case |
| C Connection | NN Paper Tag bonded to case |
| 02L 1/4 NPT, lower | FF Flange for panel mounting |
| 02E 1/4 NPT, left | C4 Certified Calibration data (standard w. 2089) |
| 02D 1/4 NPT, right | |
| 02T 1/4 NPT, top | |

| psi | Compound | psi (absolute) |
|------|----------|----------------|
| 10# | 600# | |
| 15# | 800# | |
| 30# | 1000# | 15#&V |
| 60# | 1500# | 30#&V |
| 100# | 2000# | 60#&V |
| 160# | 2500# | 100#&V |
| 200# | 3000# | |
| 300# | 5000# | |
| 500# | 7000# | |

Temperature options 4°C, 20°C, 60°F. Metric units available on request.

Ashcroft Pressure Switches

- Long Life Sensor & Relay (>10 million operations)
- Watertight Metal Enclosure
- Deadband Adjustable to 0.5%
- Bright Local Display (optional)



▲ NPI

This electronic pressure switch will outlast mechanical switches in high cycle applications. The pressure sensor is a stable thin film transducer with proven reliability and long life. The adjustable, narrow deadband solves many pipeline and elevated tank applications that cannot be satisfied with mechanical products. An optional LED display provides local pressure indication and simplifies switchpoint setup.

SPECIFICATIONS

| | |
|----------------|--|
| Enclose: | Epoxy coated aluminum NEMA 3, 4, 4X, 13 & IP66 |
| Wetted Parts: | 17-4 PH stainless steel diaphragm 316 stainless steel fitting |
| Display: | 3 1/2 digit LED indicates process pressure ±1% |
| Status Lights: | Process pressure, set pressure, reset pressure, relay output |
| Output: | SPDT Relay rated 10A @250VAC/30VDC |
| Life: | >10 million operations at rated load |
| Electrical: | 3/4 NPT connection |

ORDERING INFORMATION

To Order - Insert Number Code for Each Letter to Select Catalog Number. Example: AS/NPAN7DCS02100#

AS/ **A** **B** **C** **D** **E** **F** **G**

| A Function | G Range | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|-----------------|-----------------|-----------|-----------|-----|------|-----|-----|------|-------|-----|-----|------|--------|-----|------|------|--------|-----|------|------|--------|------|------|------|--------|------|------|-------|---------|------|------|-------|----------|------|-------|-------|----------|------|-------|-------|----------|------|-------|-------|----------|------|-------|--------|-----------|-------|-------|--------|-----------|-------|-------|--------|------------|-------|-------|
| NPA Single setpoint, adjustable deadband | <table border="1"> <thead> <tr> <th>psi</th> <th>Setpoint Limits</th> <th>psi Proof</th> <th>psi Burst</th> </tr> </thead> <tbody> <tr> <td>60#</td> <td>3-60</td> <td>120</td> <td>480</td> </tr> <tr> <td>100#</td> <td>5-100</td> <td>200</td> <td>800</td> </tr> <tr> <td>200#</td> <td>10-200</td> <td>400</td> <td>1600</td> </tr> <tr> <td>300#</td> <td>15-300</td> <td>600</td> <td>2400</td> </tr> <tr> <td>500#</td> <td>25-500</td> <td>1000</td> <td>4000</td> </tr> <tr> <td>750#</td> <td>35-750</td> <td>1500</td> <td>6000</td> </tr> <tr> <td>1000#</td> <td>50-1000</td> <td>2000</td> <td>8000</td> </tr> <tr> <td>2000#</td> <td>100-2000</td> <td>4000</td> <td>16000</td> </tr> <tr> <td>3000#</td> <td>150-3000</td> <td>4500</td> <td>20000</td> </tr> <tr> <td>5000#</td> <td>250-5000</td> <td>7500</td> <td>22500</td> </tr> <tr> <td>7500#</td> <td>375-7500</td> <td>9000</td> <td>25000</td> </tr> <tr> <td>10000#</td> <td>500-10000</td> <td>12000</td> <td>30000</td> </tr> <tr> <td>15000#</td> <td>750-15000</td> <td>18000</td> <td>45000</td> </tr> <tr> <td>20000#</td> <td>1000-20000</td> <td>24000</td> <td>60000</td> </tr> </tbody> </table> | psi | Setpoint Limits | psi Proof | psi Burst | 60# | 3-60 | 120 | 480 | 100# | 5-100 | 200 | 800 | 200# | 10-200 | 400 | 1600 | 300# | 15-300 | 600 | 2400 | 500# | 25-500 | 1000 | 4000 | 750# | 35-750 | 1500 | 6000 | 1000# | 50-1000 | 2000 | 8000 | 2000# | 100-2000 | 4000 | 16000 | 3000# | 150-3000 | 4500 | 20000 | 5000# | 250-5000 | 7500 | 22500 | 7500# | 375-7500 | 9000 | 25000 | 10000# | 500-10000 | 12000 | 30000 | 15000# | 750-15000 | 18000 | 45000 | 20000# | 1000-20000 | 24000 | 60000 |
| psi | | Setpoint Limits | psi Proof | psi Burst | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 60# | 3-60 | 120 | 480 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 100# | 5-100 | 200 | 800 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 200# | 10-200 | 400 | 1600 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 300# | 15-300 | 600 | 2400 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 500# | 25-500 | 1000 | 4000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 750# | 35-750 | 1500 | 6000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1000# | 50-1000 | 2000 | 8000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2000# | 100-2000 | 4000 | 16000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3000# | 150-3000 | 4500 | 20000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5000# | 250-5000 | 7500 | 22500 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7500# | 375-7500 | 9000 | 25000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10000# | 500-10000 | 12000 | 30000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15000# | 750-15000 | 18000 | 45000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20000# | 1000-20000 | 24000 | 60000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NPI Single setpoint, adjustable deadband, process and setpoint display | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B Enclosure | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| N4 Watertight NEMA 3,4, 4X, 13 & IP66 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C Output | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D SPDT Relay | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| I SPDT Relay & 4-20mA output | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D Power Equipment | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| L 110VAC, 50/60Hz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C 24VDC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| V 250VAC, 50/60Hz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E Pressure Port | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S01 1/8 NPT Male | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S02 1/4 NPT Male | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S03 1/8 NPT Female | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S04 1/4 NPT Female | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S05 7/16 -20 SAE - 1/4 SAE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S06 1/2 NPT Male, 1/4 NPT Female | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S07 1/4 AMINCO Female | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F Option | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| XEA External Setpoint Adjustment | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| None - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |