DG25 General Purpose Digital Gauge

FEATURES
- 0.5% Accuracy (0.25% option)
- Min./Max. function feature records low and high pressure events
- Nine engineering units: one field (programmable)
- All Stainless steel-laser welded wetted parts
- Push-button menu navigation
- 20 segment bar graph display
- 5 Digit numeric display
- IP67 Enclosure

TYPICAL USES
- Hydraulics and pneumatics
- Test and measurement
- Specialized OEM equipment
- Material strength testing
- Torque measurement
- Weighing

SPECIFICATIONS

Accuracy: ±0.5% of span (ASME B40.7 Grade 2A), ±0.25% of span (ASME B40.7 Grade 3A) (OPT.)
Case Size: 2½˝
Nominal Sizes: 2.73˝ (70 mm) dia., 1.61˝ (40.9 mm) deep, 2.64˝ (67 mm) centerline to end of ¼ NPT thread height
Character Height: Upper line: 0.48˝, (12.19mm), 5 digit
Lower line: 0.24˝, (6.10mm), 5 character alphanumeric
Ranges: Vacuum, compound, 15 to 25,000 psi
Pressure Connection: ¼ NPT typical, see page 4 for all options
Process Connection Location: Lower
Temperature Coefficient: 0.04% °F (–20 °F to 180 °F) zero and span reference temperature 70 °F
Leak Integrity: 10⁷ cc/sec
Update Rate: 1Hz, 2Hz, 4Hz
Vibration: MIL-STD-202G, Method 201A
Serial Number: Yes
View Angle: 12 o’clock
Battery: Two AA alkaline batteries
Battery Life: 2,000 hours minimum
Battery Life Indicator: 4 levels
Cycle Life: 10 million cycles

KEY BENEFITS
- Wide variety of pressure connection thread options
- Easily custom configured to meet unique requirements
- Ingress protection suitable for demanding applications

SPECIFICATIONS

LCD Display: Five-digit numeric top line, five-character alphanumeric lower line, 20 segment vertical bar graph, four segment battery life indicator, dedicated icons for gauge timer, back light timer, tare, min. and max.

Keypad Functions: Three key; with multi press functionality

Hard Keys:
- On/Off: Power Symbol and Enter Zero
- Zero: Tare, and Up Arrow
- Menu: Access, Backlight, Down Arrow

Engineering Units:
- psi, bar, inHg, cmHg, kPa, MPa, kg/cm², ftH₂O, and customer defined unit.
  (Some ranges may not include all units due to resolution limitations. See range chart on page 3.)

Enclosure Rating: IP67
Approvals: CE, UL 61010-1, CUL

PRESSURE RATINGS

Overpressure: 2 X Range
- 15 to ≤2,000 psi
- ≥3,000 to ≤5,000 psi
- ≥7,500 to ≤20,000 psi
Proof: 3 X Range
- 1.5 X Range
- 1.2 X Range
Burst: 2 X Range
- 8 X Range
- 3 X Range
- 1.5 X Range
Data Sheet

DG25 General Purpose Digital Gauge

WETTED COMPONENTS

<table>
<thead>
<tr>
<th>Diaphragm</th>
<th>Socket</th>
<th>Joints</th>
</tr>
</thead>
<tbody>
<tr>
<td>17-4 Stainless steel</td>
<td>316L Stainless steel</td>
<td>Laser welded</td>
</tr>
</tbody>
</table>

NON-WETTED COMPONENTS

<table>
<thead>
<tr>
<th>Case</th>
<th>Keypad</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polycarbonate/ABS</td>
<td>Polycarbonate</td>
</tr>
</tbody>
</table>

ORDERING CODE

Example: DG 25 3 1 L 1 NA M02 L 1000# -XC4

- **Model**
  - DG - DG25

- **Dial Size**
  - 25 - 2.5”

- **Accuracy**
  - 3 - ±0.25% of span
  - 5 - ±0.5% of span

- **Type**
  - 1 - Battery

- **Backlight**
  - L - Backlight
  - N - No backlight

- **Protective Boot**
  - 0 - None
  - 1 - Black
  - 2 - Orange

- **Electrical Connection**
  - NA - Not Applicable

- **Process Connection Size**
  - F09 - ¼-18 UNF-2B internal thread, high pressure
  - M01 - 1/8 NPT Male
  - M02 - 1/4 NPT Male
  - M04 - ½ NPT Male
  - M75 - No thread for seal weld
  - M02 - ¾ NPTF Male dry seal, high pressure
  - MG2 - G1/4 B Male
  - MGA - G1/4 A Male
  - MKJ - ¾-19 BSP Male with shaft
  - MLF - ¾ NPT Male with ¾-20 UNJF-3B internal thread
  - MR4 - R ½ Male
  - MS2 - ¾-19 BSP Male

- **Process Connection Location**
  - L - Lower

- **Range**
  - 1000# - 0-1,000 psi

- **Options**
  - B3 - Gauge pouch with Ashcroft® logo
  - C4 - Individual certified calibration chart
  - NH - Metal tag wired to case
  - OB - Generic non-branded key panel
  - GX - Epoxy potted stem (10 unit minimum)
  - 6B - Cleaned for gaseous oxygen service
  - 6W - Cleaned to ASME B40.100 level IV, NOT marked for gaseous oxygen service

Consult factory for: Custom configurations, OEM requirements, individual calibration chart, cleaned for gaseous oxygen service, gauge pouch with Ashcroft® logo, other ranges and mounting options.

MIN/MAX TEMPERATURE LIMITS

<table>
<thead>
<tr>
<th>Version</th>
<th>Process</th>
<th>Storage</th>
</tr>
</thead>
<tbody>
<tr>
<td>DG25</td>
<td>-4 °F to 140 °F (-20 °C to 60 °C)</td>
<td>-4 °F to 140 °F (-20 °C to 60 °C)</td>
</tr>
<tr>
<td>Batteries removed</td>
<td>—</td>
<td>-4 °F to 176 °F (-20 °C to 80 °C)</td>
</tr>
</tbody>
</table>

WETTED COMPONENTS

- **Diaphragm Socket Joints**
  - 17-4 Stainless steel
  - 316L Stainless steel
  - Laser welded

NON-WETTED COMPONENTS

- **Case**
  - Polycarbonate/ABS

- **Keypad**
  - Polycarbonate

MIN/MAX TEMPERATURE LIMITS

- **Process**
  - DG25: -4 °F to 140 °F (-20 °C to 60 °C)
  - Batteries removed: —
  - Storage: -4 °F to 176 °F (-20 °C to 80 °C)

Options (if choosing an option(s), must include an “X”)

- B3 - Gauge pouch with Ashcroft® logo
- C4 - Individual certified calibration chart
- NH - Metal tag wired to case
- OB - Generic non-branded key panel
- GX - Epoxy potted stem (10 unit minimum)
- 6B - Cleaned for gaseous oxygen service
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1.800.328.8258

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# DG25 General Purpose Digital Gauge

## Standard psi ranges

<table>
<thead>
<tr>
<th>RANGE CODE</th>
<th>psi Low</th>
<th>psi High</th>
<th>inHg Low</th>
<th>inHg High</th>
<th>cmHg Low</th>
<th>cmHg High</th>
<th>mmHg Low</th>
<th>mmHg High</th>
<th>kPa Low</th>
<th>kPa High</th>
<th>MPa Low</th>
<th>MPa High</th>
<th>kg/cm² Low</th>
<th>ftH₂O Low</th>
<th>ftH₂O High</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vacuum</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0BR&amp;V</td>
<td>-14.5</td>
<td>0</td>
<td>-1450</td>
<td>0</td>
<td>-750</td>
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<td>-0.100</td>
<td>0</td>
<td>-33.52</td>
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</table>

### Compound

<table>
<thead>
<tr>
<th>RANGE CODE</th>
<th>psi Low</th>
<th>psi High</th>
<th>inHg Low</th>
<th>inHg High</th>
<th>cmHg Low</th>
<th>cmHg High</th>
<th>mmHg Low</th>
<th>mmHg High</th>
<th>kPa Low</th>
<th>kPa High</th>
<th>MPa Low</th>
<th>MPa High</th>
<th>kg/cm² Low</th>
<th>ftH₂O Low</th>
<th>ftH₂O High</th>
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<tbody>
<tr>
<td>15BR&amp;V</td>
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<td>10342</td>
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<td>775.5</td>
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<td>1000</td>
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<td>30BR&amp;V</td>
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<td>60BR&amp;V</td>
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### Pressure

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<tr>
<th>RANGE CODE</th>
<th>psi Low</th>
<th>psi High</th>
<th>inHg Low</th>
<th>inHg High</th>
<th>cmHg Low</th>
<th>cmHg High</th>
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<th>MPa Low</th>
<th>MPa High</th>
<th>kg/cm² Low</th>
<th>ftH₂O Low</th>
<th>ftH₂O High</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.6BR&amp;V</td>
<td>0</td>
<td>16000</td>
<td>0</td>
<td>16315</td>
<td>0</td>
<td>5363</td>
<td>0</td>
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</table>

### Standard bar ranges

<table>
<thead>
<tr>
<th>RANGE CODE</th>
<th>bar Low</th>
<th>bar High</th>
<th>inHg Low</th>
<th>inHg High</th>
<th>cmHg Low</th>
<th>cmHg High</th>
<th>mmHg Low</th>
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<td>Vacuum</td>
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<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0BR&amp;V</td>
<td>-1.000</td>
<td>0</td>
<td>-14.50</td>
<td>0</td>
<td>-29.53</td>
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<td>-75.01</td>
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<td>-100.0</td>
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<td>-0.100</td>
<td>0</td>
<td>-33.52</td>
<td>0</td>
<td></td>
</tr>
</tbody>
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### Compound

<table>
<thead>
<tr>
<th>RANGE CODE</th>
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<th>bar High</th>
<th>inHg Low</th>
<th>inHg High</th>
<th>cmHg Low</th>
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</table>

### Pressure

<table>
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<tr>
<th>RANGE CODE</th>
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</tr>
</tbody>
</table>

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* 0.5% Accuracy only.
* Requires use of pressure connection F09 or MD2

Note: "-" in range table indicates unit of pressure is not included in this pressure range.
# DG25 General Purpose Digital Gauge

## DIMENSIONS

For reference only, consult Ashcroft for specific dimensional drawings.

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1/8 NPT Male (M01)</td>
<td>1/4 NPT Male (M02)</td>
<td>G 1/4 B NPT Male (MG2)</td>
</tr>
<tr>
<td>1/8 NPT Male &amp; 1/8-20 UNJF-3B (MLF)</td>
<td>1/4-19 BSP (MS2)</td>
<td>No Threads (M75)</td>
</tr>
<tr>
<td>1/2 NPT Male &amp; 7/16 -20 UNF-3B (MLF)</td>
<td>1/8-18 Internal Thread (F09)</td>
<td>1/4 NPTF Class 1 (male dry seal) (MD2)</td>
</tr>
<tr>
<td>1/2 NPT Male &amp; 7/16 -20 UNJF-3B (MLF)</td>
<td>1/4-19 Male w/Center Shaft (MKS)</td>
<td>1/4-19 Male w/Center Shaft, PER BS2279:1986</td>
</tr>
<tr>
<td>1/2 NPT Male &amp; 7/16 -20 UNJF-3B (MLF)</td>
<td>1/4-19 Male w/Center Shaft, PER BS2279:1986</td>
<td></td>
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</tbody>
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