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” (70mm) dia., 1.61” (40.9mm) deep, 2.64” (67mm) 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:** 10⁻⁷ cc/sec

**Update Rate:** 1Hz, 2Hz, 4Hz

**Vibration:** MIL-STD-20G, Method 201A

**Shock:** MIL-STD-20G, Method 213B, Test Condition K

**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

**Pressure Ratings**

<table>
<thead>
<tr>
<th>Range</th>
<th>Proof</th>
<th>Burst</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overpressure</td>
<td>2 X Range</td>
<td>8 X Range</td>
</tr>
<tr>
<td>15 to m2,000 psi</td>
<td></td>
<td></td>
</tr>
<tr>
<td>M3,000 to m5,000 psi</td>
<td>1.5 X Range</td>
<td>3 X Range</td>
</tr>
<tr>
<td>M7,500 to m20,000 psi</td>
<td>1.2 X Range</td>
<td>1.5 X Range</td>
</tr>
</tbody>
</table>

**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, mmHg, kPa, MPa, kg/cm², ftH₂O, and customer defined unit

**Enclosure Rating:** IP67

**Approvals:** CE, UL 61010-1, CUL

KEY BENEFITS
- Wide variety of pressure connection thread options
- Easily custom configured to meet unique requirements
- Ingress protection suitable for demanding applications
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” 25
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 - ½-18 UNF-2B internal thread, high pressure
M01 - ½ NPT Male
M02 - ¾ NPT Male
M04 - ½ NPT Male
M75 - No thread for seal weld
MD2 - ¼ NPT Female, (dry seal) high pressure
MG2 - G1/4 B Male
MGA - G1/4 A Male
MKJ - ¼-19  BSP Male with shaft
MLF - ½ NPT With ½-18 UNF-3B internal thread
MR4 - R ½ Male
MS2 - ¼-19  BSP Male
Process Connection Location
L - Lower
Range (coding example, see range table below for all standard ranges)
1000# - 0-1,000 psi
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
OQ - 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</td>
<td>-4°F to 176°F</td>
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<tr>
<td></td>
<td>(-20°C to 60°C)</td>
<td>(-20°C to 80°C)</td>
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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 Range</th>
<th>psi High Range</th>
<th>inHg Low Range</th>
<th>inHg High Range</th>
<th>cmHg Low Range</th>
<th>cmHg High Range</th>
<th>mmHg Low Range</th>
<th>mmHg High Range</th>
<th>kPa Low Range</th>
<th>kPa High Range</th>
<th>MPa Low Range</th>
<th>MPa High Range</th>
<th>kg/cm² Low Range</th>
<th>ftH₂O Low Range</th>
<th>ftH₂O High Range</th>
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<tbody>
<tr>
<td>Vacuum</td>
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</tr>
</tbody>
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### Notes
- Requires use of pressure connection F09 or M02
- Note: "-" in range table indicates unit of pressure is not included in this pressure range
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DIMENSIONS

For reference only, consult Ashcroft for specific dimensional drawings.