Measuring pressure on equipment is indispensable for monitoring and ensuring the smooth functioning and operating safety of these systems.

STAUFF offers a variety of simple pressure measuring devices for liquid and gaseous media. These pressure gauges can be used as both stationary or portable devices. STAUFF addresses the very extensive width of possible system pressures and the strict requirements for precision with a variety of pressure gauge types with different measuring ranges.

The glycerine filled gauge range is available with various connection ports to fit many different installation needs. The pressure gauges can be purchased alone or in a test kit. The kits can be supplied with gauges with different pressure ranges and adaptors to satisfy any requirement.

The analog pressure gauges are primarily designed for permanent installations. STAUFF also offers a digital line for analytical troubleshooting.

These digital pressure gauges are also available as a pressure test kit and also make it possible to perform the many different measurement tasks with the help of adapters and the measuring hose. An important advantage is the possibility to measure pressure peaks with the device, to save them short term and to display them in the display as MIN and MAX values.

A new development of this digital pressure gauge is the wireless data logger, which makes it possible to start pressure measurement series on a machine without a bothersome cable via radio signal and to transfer these to a PC or laptop. This wireless pressure gauge is one of the most affordable types of a wireless data logger.
Our pressure gauges (SPG) conform to the European Standard EN 837-1 and are manufactured and tested according to appropriate requirements. Pressure gauges with a full scale value between 0,5 bar and 200 bar / 7.25 PSI and 2900 PSI come under „Good Engineering Practice“ and must not carry a CE mark (section 3, paragraph 3).

Pressure gauges (SPG) with a full scale value of less than 0,5 bar / 7.25 PSI and loose diaphragm sealings do not come under the PED and must not carry a CE mark. Our pressure gauges (SPG) with a full scale value of > 200 bar / 2900 PSI receive a CE mark according to the conformity procedure.

The CE mark is attached to the outside of the housing (type designation plate).
We are not authorised to CE mark pressure gauges without a company name or a company logo.

---

**Pressure Gauges • Accessories**

**Single Station Gauge Isolator Valve**
(see on page F78, Valves section)

**Multi Station Gauge Isolator Valve**
(see on page F78, Valves section)

**Gauge Isolator Needle Valves**
(see on page F79, see Valves section)

**Test Hoses - Gauge Adaptor**
(see on page B36, STAUFF Test section)

**Gauge Adaptor**
(see on page B11, STAUFF Test section)

**Direct Gauge Adaptor**
(see on page B11, STAUFF Test section)

**Adjustable Gauge Fitting**
(see on page B34, STAUFF Test section)
Pressure Gauge (Analog) • Type SPG

Product Description

Area of Application
- Mechanical pressure measurement

Features
- Suitable for hydraulic oil and gaseous media compatible with copper based alloys
- Available in nominal sizes 63 and 100 mm / 2.5 and 4 in
- Thread form: for BSP G1/4 and G1/2, NPT (1/4 NPT and 1/2 NPT), SAE (7/16–20 UNF)
- Stainless Steel (1.4301) housing
- Acrylic sight glass
- Glycerine filled
- Standard dual scales with pressure indication in bar and PSI
- U-bolt or flange mounting kit on request

Note: Please consult STAUFF before you use SPG with other media.

Options
- Protective rubber cap
- Additional scale readings including personalisation
- U-bolt and flange mounting kits are available separately as spare parts

Technical Data
- Pressure gauge according to EN 837-1
- Subject to technical modifications

Accuracies
- SPG-063: 1.6 (% FS*) as per EN 837-1
- SPG-100: 1.0 (% FS*) as per EN 837-1

Permissible Temperatures
- Ambient: -20 °C ... +60 °C / -4 °F ... +140 °F
- Media: max. +60 °C / max. +140 °F

Protection Ratings
- IP 65: for all manometer SPG 100
- SPG 063 > 16 bar / 232 PSI
- IP 65 protection rating. Dust tight and protected against water jets
- IP 54: for all manometer SPG 063 ≤ 16 bar / 232 PSI due to pressure compensation opening
- IP 54 protection rating. Dust protected and protected against splashing water

Order Codes

<table>
<thead>
<tr>
<th>SPG</th>
<th>063</th>
<th>0160</th>
<th>01</th>
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</table>

① Series and Type
Stainless Steel Pressure Gauge SPG

② Size
- 63 mm, with G1/4 or 1/4 NPT connection 063
- 100 mm, with G1/2 or 1/2 NPT connection 100

③ Pressure Ranges
-1 ... 1.5 bar / -14.5 ... 21 PSI (-1)-(1.5)
-1 ... 3 bar / -14.5 ... 43 PSI (-1)-00003
0 ... 10 bar / 0 ... 145 PSI 00010
0 ... 16 bar / 0 ... 232 PSI 00016
0 ... 25 bar / 0 ... 362 PSI 00025
0 ... 40 bar / 0 ... 580 PSI 00040
0 ... 60 bar / 0 ... 876 PSI 00060
0 ... 100 bar / 0 ... 1450 PSI 00100
0 ... 160 bar / 0 ... 2320 PSI 00160
0 ... 250 bar / 0 ... 3625 PSI 00250
0 ... 400 bar / 0 ... 5801 PSI 00400
0 ... 600 bar / 0 ... 8720 PSI 00600
0 ... 860 bar / 0 ... 9862 PSI 00860
0 ... 700 bar / 0 ... 10152 PSI 00700
0 ... 1000 bar / 0 ... 14500 PSI 01000

Note: Others on request.

④ Styles of Scales
- bar / PSI (bar outside/PSI inside - standard option) 01
- bar 02
- PSI 03
- PSI / bar (PSI outside/ bar inside) 05
- kPa / PSI (kPa outside/ PSI inside) 10

Note: Others on request.

⑤ Adaption
- Stem mounting S
- Panel mounting P

⑥ Process Connection
- G1/4 (only SPG 063) B04
- G1/2 (only SPG 100) B08
- 1/4 NPT (only SPG 063) N04
- 1/2 NPT (only SPG 100) N08
- 7/16–20 UNF (only SPG 063) U04

Note: Others on request.

⑦ Accessories
- No accessory (none)
- U-bolt assembly U
- Front flange assembly (for panel mount only) F
- Rear flange assembly R
- U-bolt and front flange assembly (for panel mount only) UF
- Protective rubber cap G

For further information on this product, please see page B34, STAUFF Test section.

D6

www.stauff.com

* FS = Full Scale
### Dimensions SPG 063

<table>
<thead>
<tr>
<th>Version</th>
<th>Dimension (mm/in)</th>
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<th>ØB</th>
<th>ØC</th>
<th>ØD</th>
<th>ØE</th>
<th>ØF</th>
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### Dimensions SPG 100

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</tbody>
</table>

* FS = Full Scale

Dimensional drawings: All dimensions in mm (in).
Pressure Gauges

Pressure Gauge (Digital) • Type SPG-DIGI

Product Description

The SPG-DIGI Digital Pressure Gauges are intended to measure and display pressures in hydraulic systems, particularly for oils, lubricants and water. They can display the current measured values, as well as minimum and maximum values, with an accuracy of 0.5 % of full scale.

The SPG-DIGI Digital Pressure Gauges are available individually, or as part of a complete pressure test kit. They are very sturdy, reliable, easy to use and come with the CE mark (evidence of conformity compliance).

Features

- Bar graph display (drag indicator)
- Background lighting
- Zero correction
- Battery charge display

Order Codes

<table>
<thead>
<tr>
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<td>B0016</td>
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1. **Series**
   - Pressure Gauge: SPG

2. **Type**
   - Digital pressure measurement and display: DIGI

3. **Pressure Ranges**
   - B0016: 0 ... 16 bar / 0 ... 232 PSI
   - B0100: 0 ... 100 bar / 0 ... 1450 PSI
   - B0400: 0 ... 400 bar / 0 ... 5801 PSI
   - B0600: 0 ... 600 bar / 0 ... 8702 PSI

4. **Process Connection**
   - G1/4
   - 7/16–20 UNF

5. **Calibration**
   - Without calibration certificate: (none)
   - With calibration certificate: CAL

Pressure Ranges

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<tr>
<th>Version</th>
<th>Pressure Range (<strong>P</strong>&lt;sub&gt;min&lt;/sub&gt;)</th>
<th>Maximum Pressure (<strong>P</strong>&lt;sub&gt;max&lt;/sub&gt;)</th>
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<td>800</td>
<td>1700</td>
</tr>
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<tr>
<td>B0600</td>
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<td>1200</td>
<td>2200</td>
</tr>
<tr>
<td></td>
<td>0 ... 8702</td>
<td>17404</td>
<td>31908</td>
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</table>

Technical Data

Materials

- Housing made of die-cast Zinc with TPE rubber protective covering
- Wetted parts: Stainless Steel 1.4404, NBR, ceramic
- Gaskets: NBR (Buna-Nitril) FPM (Viton®) or EPDM upon request

Dimensions and Weight

- Diameter: 79 mm / 3.11 in
- Depth: 33 mm / 1.30 in
- Weight: 540 g / 1.19 lbs

Display

- Text display 4 1/2-digit
- Size: 50 x 34 mm / 1.97 x 1.34 in
- Actual value display: 15 mm / .59 in
- MIN-MAX or FS* display: 8 mm / .31 in
- Units: bar, PSI, Mpa, kPa, mbar
- Peak pressure measurement with 10 ms sampling rate
- Lighted measured value display

Accuracy

- ±0.25 % FS* typ. / ±0.5 % FS* max.
- Resolution: 4096 steps

Permissible Temperatures

- Ambient: -10 °C ... +50 °C / +14 °F ... +122 °F
- Media: -20 °C ... +80 °C / -4 °F ... +176 °F
- Storage: -20 °C ... +60 °C / -4 °F ... +140 °F
- Relative humidity: < 85 %
- Battery life: max. 1500 hours (operating without lighting, 2 x 1.5 V DC AA (LR6-AA) Alkaline Mignon)

Process Connections

- G1/4 or 7/16–20 UNF made of 1.4404 Stainless Steel

- Vibration: IEC 60068-2-6 / 10 ... 500 Hz / 5 g
- Shock: IEC 60068-2-27 / 11 ms / 25 g
- Load cycles (10°): 100

Protection Rating

- IP 67 protection rating: Dust tight and protected against powerful water jets; even immersion (up to 1 m / 3.28 ft) in water is possible under defined conditions of pressure and time

* FS = Full Scale
Pressure Gauge (Digital Wireless) • Type SPG-DIGI-W

Product Description
In addition to the existing STAUFF product range in the field of digital pressure measuring, the new Wireless Digital Pressure Gauge (SPG-DIGI-W) is now available, allowing a most precise measurement and wireless transmission of values to a PC or notebook.

With its compact design and the ease of operation, the SPG-DIGI-W is actually a single channel wireless data logger. With just a single PC adapter, you can simultaneously transmit measured values of up to 16 digital pressure gauges over a distance of max. 50 m / 164.04 ft to your computer.

The configuration of the gauges and the inspection of your machinery and equipment can be easily accomplished from your desk, thus allowing the direct evaluation and storage of the measured values. Please note that measured values cannot be displayed in real time.

Features
- Bar graph display (drag indicator)
- Background lighting
- Zero correction
- Battery charge display
- Wireless data logging

Order Codes

Order Codes

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<tr>
<th>SPG</th>
<th>DIGI-W</th>
<th>B0016</th>
<th>B</th>
<th>CAL</th>
</tr>
</thead>
</table>

1. Series
Pressure Gauge: SPG

2. Type
Digital pressure measurement and display (wireless): DIGI-W

3. Pressure Ranges
- 1 ... 16 bar / -14.5 ... 232 PSI: B0016
- 0 ... 100 bar / 0 ... 1450 PSI: B0100
- 0 ... 400 bar / 0 ... 5801 PSI: B0400
- 0 ... 600 bar / 0 ... 8702 PSI: B0600

4. Process Connection
- G1/4
- 7/16–20 UNF

5. Calibration
- Without calibration certificate: (none)
- With calibration certificate: CAL

Pressure Ranges

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<th>Maximum Pressure (bar)</th>
<th>Burst Pressure (bar)</th>
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<td>0 ... 8702</td>
<td>17404</td>
<td>31908</td>
</tr>
</tbody>
</table>

Technical Data

Materials
- Housing made of die-cast Zinc with TPE rubber protective covering
- Wetted parts: Stainless Steel 1.4404, NBR, ceramic
- Gaskets: NBR (Buna-N/EPDM) or EPDM upon request

Dimensions and Weight
- Diameter: 79 mm / 3.11 in
- Depth: 33 mm / 1.30 in
- Weight: 540 g / 1.19 lbs

Display
- Text display 4 1/2-digit
- Size: 50 x 34 mm / 1.97 x 1.34 in
- Actual value display: 15 mm / .59 in
- MIN / MAX or FS*: display: 8 mm / .31 in
- Units: bar, PSI, Mpa, kPa, mbar
- Peak pressure measurement with 10 ms sampling rate
- Lighted measured value display

Accuracy
- ±0.25% FS* typ. / ±0.5% FS* max.
- Resolution: 4096 step

* FS = Full Scale

Product Information / Order Codes

www.stauff.com
Pressure Test Kit (Analog) • Type SMB-20/-15

Product Description
In addition to the individual SPG gauges, the STAUFF Pressure Gauges are also available as part of a pressure test kit.

The SMB Pressure Test Kits are assembled in various versions, in accordance with customer wishes. All pressure test kits are supplied in a handy case with custom-designed foam inserts.

Components

**Standard Option SMB-20-1-xxx-C6F**
- 1x Test hose (2000 mm length): SMS-20-2000-A-C6F
- 1x Pressure gauge Ø 63 mm: SPG 063-xxx...
- 1x Gauge adaptor G1/4: SMA20-G1/4-P-OR-C6F
- 1x Direct gauge adaptor G1/4: SM20-G1/4P-OR-C6F
- 1x Test coupling G1/4: SMK20-G1/4-PC-C6F
- 1x Test coupling M10 x 1: SMK20-M10x1-PA-C6F
- 1x Thread adaptor G3/8: SRS20-G3/8-B-C6F
- 1x Thread adaptor G1/2: SRS20-G1/2-B-C6F

**Standard Option SMB-20-2-xxx/xxx-C6F**
- 1x Test hose (2000 mm length): SMS-20-2000-A-C6F
- 2x Pressure gauge Ø 63 mm: SPG 063-xxx...
- 1x Gauge adaptor G1/4: SMA20-G1/4-P-OR-C6F
- 1x Direct gauge adaptor G1/4: SM20-G1/4P-OR-C6F
- 1x Test coupling G1/4: SMK20-G1/4-PC-C6F
- 1x Test coupling M10 x 1: SMK20-M10x1-PA-C6F
- 1x Thread adaptor G3/8: SRS20-G3/8-B-C6F
- 1x Thread adaptor G1/2: SRS20-G1/2-B-C6F

**Standard Option SMB-20-3-xxx/xxx-xxx-C6F**
- 3x Pressure gauge Ø 63 mm: SPG 063-xxx...
- 1x Gauge adaptor G1/4: SMA20-G1/4-P-OR-C6F
- 2x Direct gauge adaptor G1/4: SM20-G1/4P-OR-C6F
- 3x Test coupling G1/4: SMK20-G1/4-PC-C6F
- 3x Test coupling M10 x 1: SMK20-M10x1-PA-C6F
- 1x Thread adaptor G3/8: SRS20-G3/8-B-C6F
- 1x Thread adaptor G1/2: SRS20-G1/2-B-C6F

**Standard Option SMB-20/100-1-xxx-C6F**
- 1x Test hose (2000 mm length): SMS-20-2000-A-C6F
- 1x Pressure gauge Ø 100 mm: SPG 100-xxx...
- 1x Gauge adaptor G1/2: SMA20-G1/2-P-OR-C6F
- 1x Direct gauge adaptor G1/2: SM20-G1/2P-OR-C6F
- 1x Test coupling G1/4: SMK20-G1/4-PC-C6F
- 1x Test coupling M10 x 1: SMK20-M10x1-PA-C6F
- 1x Thread adaptor G3/8: SRS20-G3/8-B-C6F
- 1x Thread adaptor G1/2: SRS20-G1/2-B-C6F

Note: All test kits also available as SMB-15 version.

### Order Codes

| SMB | - | 20 | - | 1 | xxx / xxx / xxx | - | C6F |

#### Series
- Pressure Test Kit: SMB

#### Types
- Test 20: 20
- Test 15: 15

#### Number of Pressure Gauges
- 1 pressure gauge SPG 063 mm: 1
- 2 pressure gauges SPG 063 mm: 2
- 3 pressure gauges SPG 063 mm: 3
- 1 pressure gauge SPG 100 mm: /100-1

#### Pressure Ranges

- 1...3 bar / 14.5...43 PSI: (-1)0003
- 0...10 bar / 0...145 PSI: 010
- 0...16 bar / 0...232 PSI: 016
- 0...25 bar / 0...362 PSI: 025
- 0...40 bar / 0...580 PSI: 040
- 0...60 bar / 0...870 PSI: 060
- 0...100 bar / 0...1450 PSI: 100
- 0...160 bar / 0...2320 PSI: 160
- 0...250 bar / 0...3625 PSI: 250
- 0...400 bar / 0...5801 PSI: 400

Note: Please indicate pressure ranges in bar.
For one pressure gauge please replace xxx.
For two pressure gauges please replace xxx/xxx.
For three pressure gauges please replace xxx/xxx/xxx.

#### Material Surface
- Steel, zinc/nickel plated: C6F

For further information on this product please see page B35, STAUFF Test section.

D10  www.stauff.com
Order Codes

<table>
<thead>
<tr>
<th>SMB</th>
<th>DIGI</th>
<th>20</th>
<th>B0016</th>
<th>B</th>
<th>CAL</th>
</tr>
</thead>
</table>

① Series
Pressure Test Kit SMB

② Types
SPG-DIGI digital pressure gauge DIGI
SPG-DIGI digital pressure gauge (wireless) DIGI-W

③ Adaptor Version
Adapts to STAUFF Test 20 (M16 x 2) 20
Adapts to STAUFF Test 12 (S12,65 x 1,5) 12

Pressure Ranges

<table>
<thead>
<tr>
<th>Version</th>
<th>Pressure Range (bar)</th>
<th>Maximum Pressure (bar)</th>
<th>Burst Pressure (bar)</th>
</tr>
</thead>
<tbody>
<tr>
<td>B0016</td>
<td>1...16</td>
<td>40</td>
<td>50</td>
</tr>
<tr>
<td></td>
<td>14,5...232</td>
<td>580</td>
<td>725</td>
</tr>
<tr>
<td>B0100</td>
<td>0...100</td>
<td>200</td>
<td>80</td>
</tr>
<tr>
<td>0...1450</td>
<td>2900</td>
<td></td>
<td></td>
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<tr>
<td>B0400</td>
<td>0...400</td>
<td>800</td>
<td>1700</td>
</tr>
<tr>
<td>0...5601</td>
<td>11603</td>
<td></td>
<td>24656</td>
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<tr>
<td>B0600</td>
<td>0...600</td>
<td>1200</td>
<td>2350</td>
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<tr>
<td>0...8702</td>
<td>17404</td>
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<td>31908</td>
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</table>

④ Process Connection
G1/4
7/16 – 20 UNF

⑤ Calibration
Without calibration certificate (none)
With calibration certificate CAL

Product Description

In addition to the individual SPG-DIGI devices, the STAUFF Digital Pressure Gauges are also available as part of a pressure test kit. The SPG-DIGI pressure test kits are assembled in various versions, in accordance with customer wishes. All pressure test kits are supplied in a handy case with custom-designed foam inserts.

Along with the SPG-DIGI-W itself, the pressure test kits always contain a PC adaptor with USB connection cable (1.5 m / 4.92 ft).

Components

Standard Option SPG-DIGI
SPG-DIGI digital pressure gauge
- SDA adaptor (G1/4 to M16 x 2 or S12,65 x 1,5)
- SSV20 or SSV12 hose connector
- SMK20-G1/4-PC-C6F or SKK12-G1/4-PC-C6F test point
- SMK20-M10x1-PA-C6F or SKK12-M10x1-PA-C6F test point
- SRS-G2/B-C6F reducing thread adaptor
- SRS-G1/2/B-C6F reducing thread adaptor
- SMS test hose (2 m / 6.56 ft), M16 x 2 or S12,65 x 1,5 connection, pressure-resistant to 600 bar (8702 PSI)
- Operating instructions (multilingual) on CD
- Dust cloth

Standard Option SPG-DIGI-W
- SPG-DIGI-W digital pressure gauge
- PC adaptor SPG-DIGI-W-PC with USB connection
- SDA adaptor (G1/4 to M16 x 2 or S12,65 x 1,5)
- SSV20 or SSV12 hose connector
- SMS test hose (2 m / 6.56 ft), M16 x 2 or S12,65 x 1,5 connection, pressure-resistant to 600 bar (8702 PSI)
- Operating instructions and software (multilingual) on CD
- Dust cloth

Accessories (Connection Adapters)

<table>
<thead>
<tr>
<th>Adaptor</th>
<th>Adaption from</th>
<th>To Dimension G</th>
</tr>
</thead>
<tbody>
<tr>
<td>SDA2O-G1/4-C6F</td>
<td>G1/4</td>
<td>M16 x 2</td>
</tr>
<tr>
<td>SDA15-G1/4-C6F</td>
<td>G1/4</td>
<td>M16 x 1,5</td>
</tr>
<tr>
<td>SDA12-G1/4-C6F</td>
<td>G1/4</td>
<td>S12,65 x 1,5</td>
</tr>
<tr>
<td>SADG12-1/2’-C6F</td>
<td>1/2’</td>
<td>M10 x 1,5</td>
</tr>
<tr>
<td>SADG12-1’-C6F</td>
<td>1’</td>
<td>S12,65 x 1,5</td>
</tr>
<tr>
<td>SADG12-1’1/2’-C6F</td>
<td>1’1/2’</td>
<td>M10 x 1,5</td>
</tr>
</tbody>
</table>

A large number of adaptors are available to connect STAUFF SPG-DIGI and SPG-DIGI-W pressure gauges to other test points and testers. Other adaptors are available.