

Product Description

The STAUFF 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 STAUFF 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).

Technical Data

Dimensions

- Diameter 79 (3,11)
- Depth 33 (1,3)
- Weight 540 g (1,19 lbs.)

Display

- Text display 4 1/2-digit / Size: 50 x 34 (1,97 x 1,34)
- Actual value display: 15 (0,59)
- MIN-/MAX or FS* display: 8 (0,31)
- Units: bar, PSI, Mpa, kPa, mbar
- Bar graph display (drag indicator)
- Background lighting
- Zero correction
- Battery charge display

Specifications

- Output of the current measured value
- Accuracy: $\pm 0,5 \% \text{ FS}^* \text{ typ.}, \pm 0,5 \% \text{ FS}^* \text{ max.}$
- Resolution: 4.096 steps
- Peak pressure measurement with 10 ms sampling rate
- Ambient temperature: $-10^{\circ}\text{C} \dots 50^{\circ}\text{C}$ ($14^{\circ}\text{F} \dots 122^{\circ}\text{F}$)
- Media temperature: $-20^{\circ}\text{C} \dots 80^{\circ}\text{C}$ ($-4^{\circ}\text{F} \dots 176^{\circ}\text{F}$)
- Storage temperature: $-20^{\circ}\text{C} \dots 60^{\circ}\text{C}$ ($-4^{\circ}\text{F} \dots 140^{\circ}\text{F}$)
- Relative humidity: $< 85 \%$
- Battery life: max. 1.500 hours (operating without lighting, 2 x 1,5 V DC AA (LR6-AA) Alkaline Mignon)
- Lighted measured value display
- Pressure connection: -4 SAE made of 1.4404 stainless steel
- Housing made of die-cast zinc with TPE rubber protective covering
- Adaptor made of steel, zinc-nickel coated
- Gaskets: NBR (Buna-N)
FKM (Viton) or EPDM upon request
- Safety class: EN 60529 - IP 67
- Vibration: IEC 60068-2-6 / 10 ... 500 Hz 5 g
- Shock: IEC 60068-2-27 25 g
- Load cycles (10^6): 100

* FS = Full Scale



Ordering System / Pressure Ranges

SPG - DIGI - B0016 - B - CAL

Type	
SPG	STAUFF pressure gauge

Version	
DIGI	Digital pressure measurement and display

Pressure Range			
Code	Display Range	Maximum Pressure	Burst Pressure
B0016	-1 ... 16 bar (-14,5 ... 230 PSI)	40 bar (580 PSI)	50 bar (725 PSI)
B0100	0 ... 100 bar (0 ... 1.450 PSI)	200 bar (2.900 PSI)	800 bar (11.600 PSI)
B0400	0 ... 400 bar (0 ... 5.800 PSI)	800 bar (11.600 PSI)	1.700 bar (24.650 PSI)
B0600	0 ... 600 bar (0 ... 8.700 PSI)	1.200 bar (17.400 PSI)	2.200 bar (31.900 PSI)

Calibration	
None	without calibration certificate
CAL	with calibration certificate

Pressure Connection	
B	G 1/4 BSP
U	7/16 - 20 UNF (Standard)

All dimensions in mm (inch)

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 determination and wireless transmission of measured values to a PC. With its compact design and the ease of operation, the SPG-DIGI-W is actually a wireless single-channel data logger. With just a single PC adaptor, you can simultaneously transmit measured values of up to 16 digital pressure gauges over a distance of up to 50 m (160 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.

Technical Data

Dimensions

- Diameter: 79 (3,11)
- Depth: 33 (1,3)
- Weight: 540 g (1,19 lbs.)

Display

- Text display 4 1/2-digit / Size: 50 x 34 (1,97 x 1,34)
- Actual value display: 15 (0,59)
- MIN-/MAX or FS* display: 8 (0,31)
- Units: bar, PSI, Mpa, kPa, mbar
- Bar graph display (drag indicator)
- Background lighting
- Zero correction
- Battery charge display

Specifications

- Output of the current measured value
- Accuracy: $\pm 0,25\%$ FS* typ., $\pm 0,5\%$ FS* max.
- Resolution: 4.096 steps
- Peak pressure measurement with 10 ms sampling rate
- Ambient temperature: $-10^{\circ}\text{C} \dots 50^{\circ}\text{C}$ ($14^{\circ}\text{F} \dots 122^{\circ}\text{F}$)
- Media temperature: $-20^{\circ}\text{C} \dots 80^{\circ}\text{C}$ ($-4^{\circ}\text{F} \dots 176^{\circ}\text{F}$)
- Storage temperature: $-20^{\circ}\text{C} \dots 60^{\circ}\text{C}$ ($-4^{\circ}\text{F} \dots 140^{\circ}\text{F}$)
- Relative humidity: $< 85\%$
- Battery life: max. 800 hours (operating without lighting, 2 x 1,5 V DC AA (LR6-AA) Alkaline Mignon)
- Lighted measured value display
- Pressure connection: 1.4404 stainless steel
- Housing made of die-cast zinc with TPE rubber protective covering
- Adaptor made of steel, zinc-nickel coated
- Gaskets: NBR (Buna-N) or EPDM upon request
- Safety class: EN 60529 - IP 54
- Vibration: IEC 60068-2-6 / 10 ... 500 Hz 5 g
- Shock: IEC 60068-2-27 25 g
- Load cycles (10^6): 100

* FS = Full Scale



PC Functions:

- Read-out data from measured data memory via a radio interface (2,4 GHz)
- Measuring over a distance of max. 50 m (160 ft.)
- Remote configuration of the gauges

Memory Functions:

- 5.000 measurement values (MAX pressure peaks)
- Setup of storage interval
- Time based recording
- Pressure spike monitoring

Ordering System / Pressure Ranges

Note! PC Adaptor Part # SPG-DIGI-W-PC is required to receive data values from up to 16 SPG wireless gauges.

SPG - DIGI - W - B0016 - B - CAL

Type	
SPG	STAUFF pressure gauge

Version	
DIGI-W	Digital pressure measurement and display (wireless)

Pressure Range			
Code	Display Range	Maximum Pressure	Burst Pressure
B0016	-1 ... 16 bar (-14,5 ... 230 PSI)	40 bar (580 PSI)	50 bar (725 PSI)
B0100	0 ... 100 bar (0 ... 1.450 PSI)	200 bar (2.900 PSI)	800 bar (11.600 PSI)
B0400	0 ... 400 bar (0 ... 5.800 PSI)	800 bar (11.600 PSI)	1.700 bar (24.650 PSI)
B0600	0 ... 600 bar (0 ... 8.700 PSI)	1.200 bar (17.400 PSI)	2.200 bar (31.900 PSI)

Calibration	
None	without calibration certificate
CAL	with calibration certificate

Pressure Connection	
B	G 1/4 BSP
U	7/16 - 20 UNF

All dimensions in mm (inch)

STAUFF SMB-DIGI Pressure Test Kit

To supplement the SPG-DIGI individual devices, the STAUFF digital pressure gauges are also available as part of a pressure test kit. The SMB-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 individually-designed foam inserts. They contain the following components:

- SPG-DIGI digital pressure gauge
- SMD adaptor (-4 SAE to M16 x 2 or S 12,65 x 1,5)
- SSV20 or SSV12 hose connector
- SMK20-1/4NPT-VD-C6F or SKK12-1/4NPT-VD-C6F Test Point
- SMK20-1/8NPT-VD-C6F or SKK12-1/8NPT-VD-C6F Test Point
- SMK20-7/16UNF-VE-C6F or SKK12-7/16UNF-VE-C6F Test Point
- SMK20-9/16UNF-VE-C6F or SKK12-9/16UNF-VE-C6F Test Point
- SMS Test Hose (1,5m/5ft)M16x2 or S12,65 x 1,5 connection rated to 600 Bar (8,700PSI)
- SQD-04NF-C Quick Disconnect
- Operating Instructions (multilingual) on CD



SMB20-DIGI-SM



SMB20-DIGI

STAUFF SMB-DIGI-W Pressure Test Kit

Besides the SPG-DIGI-W itself, the pressure test kits always contain a PC adaptor with USB connection cable (1,5 m / 4,8 ft.). The SMB-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 individually-designed foam inserts. They contain the following components:

- SPG-DIGI-W digital pressure gauge (incl. antenna)
- PC adaptor SPG-DIGI-W-PC (incl. antenna)
- SDA adaptor (G 1/4 BSP to M 16 x 2 or S 12,65 x 1,5)
- SSV20 or SSV12 hose connector
- SMS test hose (2 m / 6,5 ft.), M 16 x 2 or S 12,65 x 1,5 connection, pressure-resistant to 600 bar (8.700 PSI)
- Operating instructions and software (multilingual) on CD
- Dust cloth



Ordering System Pressure Test Kit / Pressure Ranges

SMB - DIGI - W - 20 - B0016 - U - CAL			
Type		Calibration	
SMB	STAUFF Pressure Test Kit	None	Digital pressure gauge without calibration certificate
Version		CAL	Digital pressure gauge with calibration certificate
DIGI	for the SPG-DIGI digital pressure gauge	Pressure Connection	
DIGI-W	for the SPG-DIGI digital pressure gauge (wireless)	B	G 1/4 BSP
Adaptor Version		U	7/16-20 UNF
20	Adapts to STAUFF Test 20 (M 16 x 2)	Pressure Ranges	
12	Adapts to STAUFF Test 12 (S 12,65 x 1,5)	Code	Display Range
		B0016	-1 ... 16 bar (-14,5 ... 230 PSI)
		B0100	0 ... 100 bar (0 ... 1.450 PSI)
		B0400	0 ... 400 bar (0 ... 5.800 PSI)
		B0600	0 ... 600 bar (0 ... 8.700 PSI)
		Maximum Pressure	Burst Pressure
		B0016	40 bar (580 PSI)
		B0100	200 bar (2.900 PSI)
		B0400	800 bar (11.600 PSI)
		B0600	1.200 bar (17.400 PSI)
			50 bar (725 PSI)
			800 bar (11.600 PSI)
			1.700 bar (24.650 PSI)
			2.200 bar (31.900 PSI)

Accessories (Connection Adaptors)

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

<p>SMD Adaptor Connects the pressure gauge to a test point</p>	<p>SAD Adaptor Only in conjunction with the SMD20-7/16 UNF-C6F adaptor, connects to other test point sizes</p>	<p>Test Point STAUFF TEST or comparable</p>	Adaptor	Adaption from	to Dimension G
			SMD20-7/16 UNF-C6F	7/16-20 UNF	M 16 x 2
			SMD15-7/16 UNF-C6F	7/16-20 UNF	M 16 x 1,5
			SMD12-7/16 UNF-C6F	7/16-20 UNF	S 12,65 x 1,5
			SAD20/15-V-C6F	M 16 x 2	M 16 x 1,5
			SAD20/12-V-C6F	M 16 x 2	S 12,65 x 1,5
			SAD20/10-V-C6F	M 16 x 2	Plug-in system

Other adaptors on request available.