

Digital pressure gauge

CPG1200 type

PLUS ||

Art. No. 137827

Type No. CPG12.14.-140.5



Exemplary illustration

Digital pressure gauges are used to measure and display pressures. They can be operated both fixed and mobile and show the measured values on an integrated display. The reading is simple, direct and precise. Therefore, the device combines the accuracy of digital measurement technology with the simplicity of an analog meter and is characterized by its performance and ease of use. Due to their high accuracy, digital pressure gauges are often used in calibration services and cover different measuring ranges. Since the measuring element cannot deform in the event of overpressure, digital pressure gauges are also more durable than analogue pressure gauges.

Technical data

Accuracy	0.5% FS
Housing	PBT with 30% glass fibre
Material process connection	CrNi steel 316L
Wetted parts	CrNi steel 316L
Operating temperature	-10 to 50 °C
Medium temperature	-20 to 50 °C
Ambient temperature	15 to 25 °C
Connection position	radial bottom
Mounting position	vertical
Protection IP	IP 65
Memory	Min.-/Max. memory
Data transfer	Micro-USB type B
Background lighting	activated via button
Menu languages	adjustable via menu
Pressure units	adjustable via menu
Power supply	3x 1.5V AA alkaline batteries
Battery life	approximately 4.000 h
Measuring range	-1 to 40 bar
Thread	G 1/4 ET
Display	4 1/2-digit 15-segment display

Technical data

Protective housing cap	without
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Commercial data

Customs tariff number	90262020
Country of origin	DE
eCl@ss 5.1.4	27200601
eCl@ss 9.0	27200601
UNSPSC_Code_v190501	41103311
UNSPSC_CodeDesc_v190501	Manometers

Digital pressure gauge Model CPG1200

**UK
CA**



Applications

- Hydrostatic pressure test
- Burst tests
- Leakage measurement
- Setting of switch points on pressure switches
- Analysis of process pressures

Special features

- Setting and checking operating pressures is easier than ever
- Simple data transmission – via USB and Bluetooth® optional
- For mobile use and stationary continuous operation



Digital pressure gauge, model CPG1200

Description

The battery-operated and very sturdily built digital pressure gauge model CPG1200 has been designed specifically for use in mobile applications. Ranges up to -1 ... 1,000 bar [-14.5 ... 15,000 psi] (gauge pressure) feature an accuracy down to 0.25 % FS. The common measuring ranges with an accuracy of 0.5% FS can be found in the RIEGLER online shop.

Checking and setting operating pressures is easier than ever

The instrument is available with the most common process connections and simplifies the workflow thanks to the optional data logger with up to 1 million data points and min./max. function. In practice, the quick and simple testing also minimises the risk of production downtimes due to critical pressure values in the process - thanks to the intrinsically safe Ex version also in sensitive areas of the oil and gas industry.

Simple data transmission – via USB and Bluetooth®

The model CPG1200 is equipped with a Micro-USB interface for simple and interference-resistant data transmission – and can optionally be expanded to include Bluetooth® for wireless communication.

For mobile use and stationary continuous operation

To ensure that critical pressure changes are detected at an early stage during transports, the CPG1200 continuously records the values and sends an alarm if necessary. Temporary monitoring is no problem thanks to optional data logger and battery operation.

An energy-saving mode and variable measuring rates allow for operating times of up to 4,000 hours without changing the battery. The battery status display shows when a change is necessary. Thanks to power supply via USB interface, the CPG1200 is also a reliable solution for stationary operation.

Specifications

Basic information		
Accuracy ¹⁾	■ 0.5 % FS ²⁾ ■ 0.25 % FS ²⁾ optional	
Non-repeatability (per IEC 61298-2)	≤ 0.1 % FS ²⁾	
Long-term stability (per IEC 61298-2)	≤ 0.2 % FS ²⁾	
Connection location	Vertical mounting position, process connection lower mount	
Adjustment	Offset and span factor adjustable	
Functions		
Menu functions	■ Min./Max. alarm (visual) ■ Power-off function ■ Measuring rate ■ Level indication ■ Tare offset ■ Indication damping	
Memory	■ Min./Max. memory ■ Integrated data logger (optional)	
Data logger (optional)	■ Automatic recording of up to 1,000,000 values ■ Interval ⇒ Selectable from 1 ... 3,600 s in 1-second steps or ⇒ Selectable with the measuring rate in the following steps: 1/s, 2/s, 4/s, 10/s	
Battery status display	Symbol display with 4 bars indicates the battery status in 25 % steps.	
Case		
Material	Case	PBT with 30 % glass fibre
	Protective case cap	VMQ (silicone)
	(can be found under accessories RIEGLER online shop)	
Dimensions	See dimensions in mm [in]	
Ingress protection	IP65	
Weight ³⁾	Incl. batteries	■ Standard: 350 g ■ ATEX: 363 g
	With protective case cap	■ Standard: 440 g ■ ATEX: 453 g

1) Including non-linearity, hysteresis, zero offset and end value deviation (corresponds to measured error per IEC 61298-2).

2) FS = Full span = end of measuring range - start of measuring range

3) Weights determined with process connection G ½. When other process connections, protective case caps and batteries are used, the weight can differ from the values specified here.

Digital display			
Display			
Display range	-9999 ... 19999 digits 4 ½-digit 15-segment display (incl. a large matrix area for auxiliary information)		
Display resolution	4 ½-digit		
Backlighting	Activated via button		
Bar graph	0 ... 100 %, 20 individual segments, which show 5 % steps		
Menu languages	Adjustable via menu		
	■ English ■ German ■ Spanish	■ French ■ Italian ■ Russian	■ Polish
Units (adjustable via menu)	■ bar ■ mbar	■ psi ■ MPa	■ kg/cm ² ■ 1 x user-defined unit
	Additional units only in conjunction with increased accuracy, 0.25 % FS ¹⁾		
	■ mmH ₂ O ■ mH ₂ O ■ inH ₂ O ■ ftH ₂ O ■ kN/m ²	■ mmHg ■ inHg ■ Pa ■ kPa ■ m	■ cm ■ mm ■ feet ■ inch ■ 1 x user-defined unit

1) FS = Full span = end of measuring range - start of measuring range

Reference conditions per IEC 61298-1	
Ambient temperature	15 ... 25 °C [59 ... 77 °F]
Atmospheric pressure	860 ... 1,060 mbar [12.5 ... 15.4 psi]
Air humidity	45 ... 75 % r. h. (non-condensing)

Measuring range, gauge pressure

bar	
0 ... 0.4	0 ... 50
0 ... 1	0 ... 60
0 ... 1.6	0 ... 80
0 ... 2.5	0 ... 100
0 ... 4	0 ... 160
0 ... 5	0 ... 250
0 ... 6	0 ... 350
0 ... 8	0 ... 400
0 ... 10	0 ... 500
0 ... 16	0 ... 600
0 ... 20	0 ... 700
0 ... 25	0 ... 800
0 ... 35	0 ... 1,000
0 ... 40	

psi	
0 ... 5	0 ... 600
0 ... 10	0 ... 750
0 ... 15	0 ... 1,000
0 ... 30	0 ... 1,450
0 ... 70	0 ... 1,500
0 ... 100	0 ... 2,000
0 ... 120	0 ... 3,000
0 ... 145	0 ... 4,000
0 ... 150	0 ... 5,000
0 ... 160	0 ... 6,000
0 ... 200	0 ... 7,500
0 ... 250	0 ... 10,000
0 ... 300	0 ... 12,000
0 ... 400	0 ... 15,000
0 ... 500	

Measuring range, absolute pressure (available on request)

bar abs.	
0 ... 0.4	0 ... 6
0 ... 1	0 ... 8
0 ... 1.6	0 ... 10
0 ... 2	0 ... 16
0 ... 2.5	0 ... 25
0 ... 4	0 ... 35

psi abs.	
0 ... 5	0 ... 120
0 ... 15	0 ... 150
0 ... 30	0 ... 300
0 ... 70	0 ... 500

Measuring range, vacuum and +/- measuring range (available on request)

bar		Artikel Nr.
-0.2 ... +0.2	-1 ... 15	
-1 ... 0	-1 ... 16	137824
-1 ... 1	-1 ... 20	
-1 ... 5	-1 ... 24	
-1 ... 9	-1 ... 30	
-1 ... 10	-1 ... 40	137827

psi	
-14.5 ... 0	-14.5 ... 200
-14.5 ... +15	-14.5 ... 300
-14.5 ... 160	-14.5 ... 450
-14.5 ... 200	-14.5 ... 600

Further details on: Measuring range		
Overpressure limit		
3 times	≤ 6 bar	≤ 70 psi
2 times	≥ 10 ... 600 bar	≥ 100 ... 7,500 psi
1.43 times	> 600	> 7,500 psi
Vacuum resistance	Yes	

Process connection		
Standard	Thread sizes	Possible measuring ranges
EN 837	■ G ¼ B	≤ 1,000 bar [≤ 15,000 psi]
	■ G ½ B	
	■ G ¾ B	≤ 400 bar [≤ 6,000 psi]
ANSI/ASME B1.20.1	■ ¼ NPT	≤ 1,000 bar [≤ 15,000 psi]

Further details on: Process connection	
Pressure port diameter / restrictor	3.5 mm [0.138 in]
Other versions	■ Oil- and grease-free ¹⁾ ■ For oxygen, oil- and grease-free ²⁾
Material	
Wetted parts ¹⁾	Stainless steel 316L
Internal pressure transmission medium	■ Without ■ Synthetic oil (for measuring ranges ≤ 6 bar [≤ 70 psi])

- 1) Specifications in accordance with technical information
 2) 3.1 inspection certificate per DIN EN 10204 (listing of the individual measured values)

→ For drawings of process connections, see page process connections.

Input signal	
Micro-USB type B	
Max. input voltage	DC 5 V
Max. input current	100 mA
Max. power	500 mW

Radio standard	
Bluetooth® (optional)	
Version	5.2 Low Energy
Frequency range	2.4 ... 2.5 GHz
Range in free field	5 m [16.4 ft]
Transmission power	Max. 3.3 mW

Voltage supply and performance data	
Battery	3 x 1.5 V AA alkaline batteries ¹⁾
Battery life	Typically > 4,000 h (without backlighting and with Bluetooth® not active)

- 1) For hazardous areas, only approved models are permitted. These are listed separately in the operating instructions and in the additional information.

Operating conditions	
Place of use	For indoor and outdoor use
Altitude	2.000 m [6.562 ft] above sea level
Medium temperature range	-20 ... +50 °C [-4 ... +122 °F]
Operating temperature	-10 ... +50 °C [14 ... 122 °F]
Storage temperature range	-18 ... +55 °C [0 ... 122 °F]
Relative humidity, condensation	< 84 % r. h. (non-condensing)
Permissible media	All liquids and gases of fluid group 2 which are compatible with 316 stainless steel
Permissible pollution degree	2 per EN 61010-1

Approvals

Logo	Description	Region
CE	EU declaration of conformity	European Union
	EMC directive	
	EN 61326 emission (group 1, class B) and immunity (industrial environment)	
	Pressure equipment directive	
	RED - Radio Equipment Directive EN 300 328 harmonised frequency range 2,400 ... 2,500 MHz is used; Bluetooth® 5.2 Low Energy (BLE), max. transmission power 10 mW. The instrument may be used without restrictions in the EU and in the countries of the EFTA	
	RoHS directive	
UK CA	UKCA	United Kingdom
	Electromagnetic compatibility regulations	
	Pressure equipment (safety) regulations	
	Radio equipment regulations	
	Restriction of hazardous substances (RoHS) regulations	

Optional approvals

Logo	Description	Region
	EU declaration of conformity	European Union
	ATEX directive	
	Hazardous areas	
	Ex i Zone 1 mounting to zone 0 gas	
	Zone 1 gas	
	Zone 2 gas	
	IECEEx (expected to be available from Q3/2023)	International
	Hazardous areas	
	Ex i Zone 1 mounting to zone 0 gas	
	Zone 1 gas	
	Zone 2 gas	

Logo	Description	Region
	UKCA Equipment and protective systems intended for use in potentially explosive atmospheres regulations Ex i Zone 1 mounting to zone 0 gas II 2G Ex ia IIC T4 Ga/Gb Zone 1 gas II 2G Ex ib IIC T4 Gb Zone 2 gas II 2G Ex ic IIC T4 Gc T4 at -10 ... +50 °C	United Kingdom
	North America Safety (e.g. electr. safety, overpressure, ...) Class - 3631 06 - Electrical measurement and inspection equipment Class - 3631 86 - Electrical equipment for measurement - certified according to US standards Hazardous areas Class - 2258 04 - PROCESS CONTROL EQUIPMENT - Intrinsically safe, entity - hazardous areas Ex i Class I, zone 0 Ex ia IIC T4 Ga Class I, division 1, groups A, B, C and D T4 T4 at -10 ... +50 °C Class - 2258 84 - PROCESS CONTROL EQUIPMENT - Intrinsically safe, entity - hazardous areas - certified in accordance with US standards AEx i Class I, zone 0 AEx ia IIC T4 Ga Class I, division 1, groups A, B, C and D T4 T4 at -10 ... +50 °C	USA and Canada

Test report

Test report ¹⁾

3 measuring points

1) Only accessible online via the [Product passport](#).

Certificates

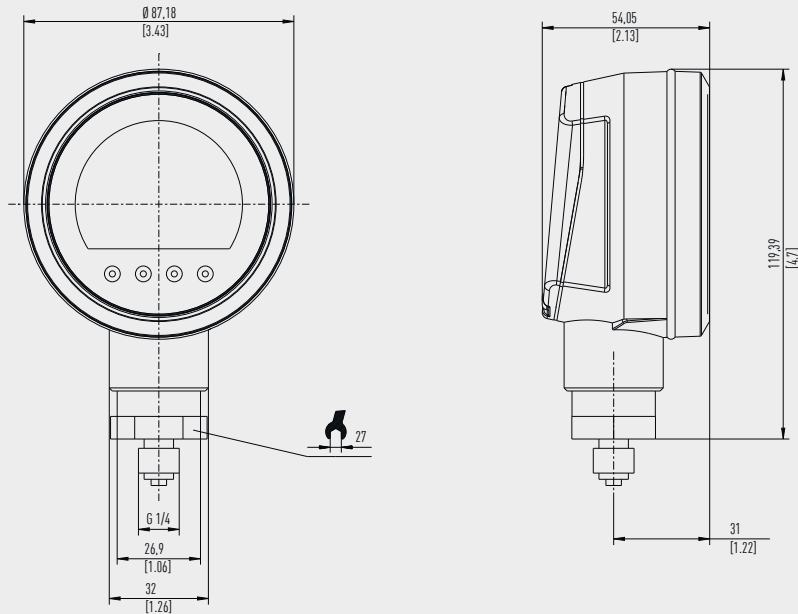
Certificates	
Calibration ¹⁾	☐ Without ☐ 3.1 inspection certificate per DIN EN 10204 (factory calibration) (optional) ☐ DAKS calibration certificate (traceable and accredited in accordance with ISO/IEC 17025) (opt.)
Recommended calibration interval	1 year (dependent on conditions of use)

1) Calibrated in vertical mounting position with process connection facing downwards

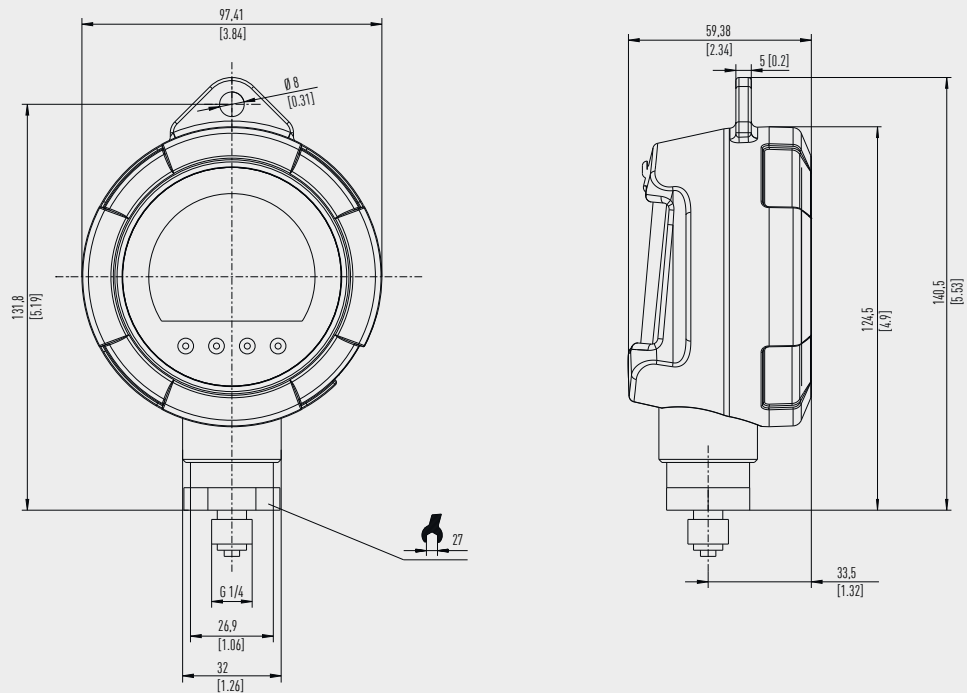
→ For approvals and certificates, see website or on request.

Dimensions in mm [in]

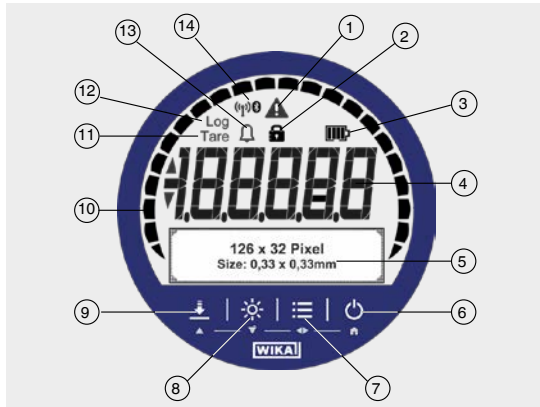
CPG1200 without protective case cap



CPG1200 with protective case cap



Front foil



- ① **Warning notice for:**
 - Exceeding or dropping below the pressure range
 - Exceeding or dropping below the temperature range
 - Logger memory is more than 90 % full
 - Instrument error or battery status < 10 %
- ② **Lock symbol**
Menu button or ZERO button locked/unlocked
- ③ **Battery status**
- ④ **Pressure indication**
- ⑤ **Matrix field**
Serves as menu and secondary display
- ⑥ **On/Off button**
- ⑦ **MENU button**
Calling up the menu
- ⑧ **LIGHT button**
Turning the backlighting on and off
- ⑨ **ZERO button**
The current pressure value will be set to "0" (gauge) or reference pressure (abs.)
- ⑩ **Bar graph**
Indicates the current pressure graphically
- ⑪ **Tare**
Tare active/inactive
- ⑫ **Log**
Logger function active/inactive
- ⑬ **Alarm**
Measured value has exceeded or dropped below the alarm limit
- ⑭ **Bluetooth® symbol**
Bluetooth® active/inactive

"myWIKA device" app

(Requirement: data logger integrated in the device)

Via the app "myWIKA device" and the Bluetooth® connection, the CPG1200 can be configured for calibration and logging tasks in a convenient way through a mobile device.

During the pressure measurement, the value is displayed in the required unit directly on the mobile device. Moreover, further parameters like temperature and pressure change rate can be monitored.

It is also possible to retrieve more detailed instrument information directly from the WIKA website. In addition, the app allows configuration, control and saving of log procedures.

Logs that were saved on the mobile device can be transferred to a PC and be read by WIKA-Cal. This enables them to be processed further and the app forms the final part of a complete solution for handling data from the CPG1200.

For connect to a PC and/or an Android or iOS-enabled device, Bluetooth® 5.2 Low Energy is recommended.



For iOS-based mobile devices, the app is available in the Apple Store under the link below.

[Download here](#)



For mobile devices with an Android operating system, the app is available in the Play Store under the link below.

[Download here](#)



WIKA-Cal calibration software

(Requirement: data logger integrated in the device)

Easy and fast creation of a high-quality calibration certificate

WIKA-Cal calibration software serves for the creation of logger protocols or calibration certificates for pressure measuring instruments. The demo version is available for a cost-free download.

To switch from the demo version to a licenced version, a USB dongle with a valid licence must be purchased.

The preinstalled demo version changes automatically to the selected version when plugging in the USB dongle and remains available as long as the USB dongle is connected to the PC.



- The user is guided through the logger or calibration process
- Management of calibration data and instrument data
- Intelligent preselection via SQL database
- Menu languages: German, English, Italian, French, Dutch, Polish, Portuguese, Romanian, Spanish, Swedish, Russian, Greek, Japanese, Chinese
More languages are due with software updates
- Customer-specific complete solutions possible
- Maximum degree of automation in connection with our CPG series

The supported instruments are continuously expanded and even customer-specific adaptations are possible.

For further information, see operating instructions.

Two WIKA-Cal licences are available together with a digital pressure gauge of the CPG series

The WIKA-Cal calibration software is available both for reading the logger data stored in the digital pressure gauge as well as for online calibrations together with a PC. The scope of software functions depends on the selected licence.

Several licences can be combined on one USB dongle.

Cal-Template (demo version)	Log-Template (full version)
Fully automatic calibration	■ Live measured value recording for a certain period of time with selectable interval, duration and start time ■ Readout of the integrated data logger of the digital pressure gauge ■ Creation of logger protocols with graphic and/or tabular representation of the measuring results in PDF format ■ Possibility of exporting measuring results as CSV file
Limitation to two measuring points	
■ Creation of 3.1 inspection certificates per DIN EN 10204 ■ Calibration data can be exported to Excel® template or XML file ■ Calibration of pressure measuring instruments	
Single licence:	
Is available for a cost-free download	

WIKA-DCS configuration software

(Requirement: data logger integrated in the device)

As a supplement to the model CPG1200 and CPG1500 digital pressure gauges, in addition to the WIKA-Cal calibration software, the WIKA-DCS configuration software is also available.

With the help of the software, the instruments can be easily configured, either via the USB or Bluetooth® connection. The configuration includes, for example, setting the indication unit, displaying the temperature, min./max values and other menu settings.

The software also enables the configuration, control and storage of logger operations.



- Configuring the instrument
- Configuring logger sequences with the CPG1200/CPG1500
- Carrying out logger sequences with the CPG1200/CPG1500
- Downloading log files from the CPG1200/CPG1500
- Download the logger protocols as a CSV file
- Menu languages: German, English, French and Spanish

Minimum system requirements	
Processor	Intel® Pentium® 4 or AMD Athlon® 64
Software	■ Microsoft® Windows® XP with Service Pack 3 ■ Windows® 7 with Service Pack 1 ■ Windows® 8 ■ Windows® 10
Storage	1 GB RAM and 1 GB free hard disc space (no installation possible on portable flash storage media)
Display	1024 x 768 pixel screen resolution (1280 x 800 pixel recommended) with 16-bit colour depth and 256 MB VRAM

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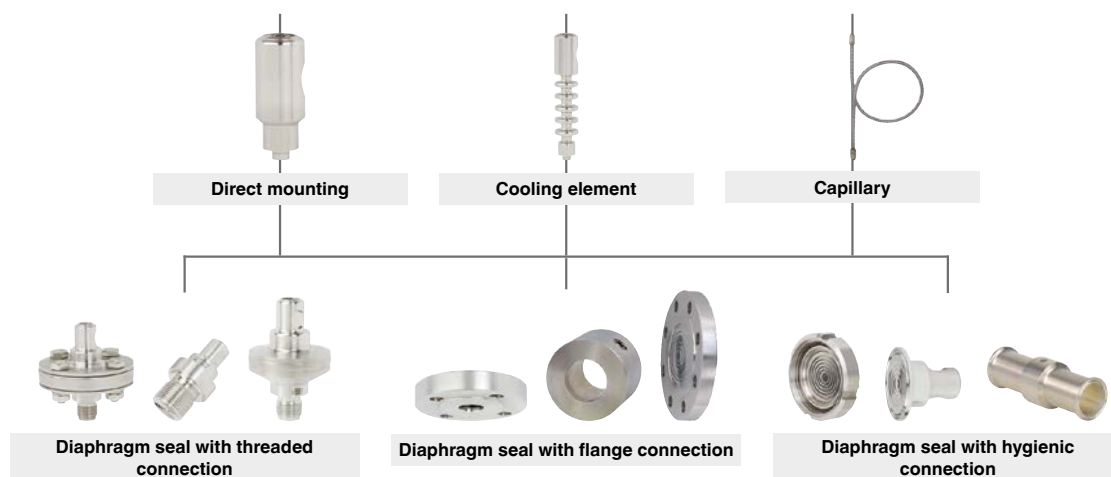
Bluetooth® is a registered trademark of Bluetooth SIG, Inc..

Haven't found the right process connection for your application?

Our diaphragm seals are the right solution

By using diaphragm seals, pressure measuring instruments can be adapted to even the harshest of process conditions. The diaphragm seal systems can be used for processes with gases, compressed air or vapour, with liquid, pasty, powdery and crystallising media and also with aggressive, adhesive, corrosive, highly viscous, environmentally hazardous or toxic media. A diaphragm separates the medium to be measured from the pressure measuring instrument. The internal space between the diaphragm and the pressure measuring instrument is completely filled with a pressure transmission medium. The pressure is transmitted to the measuring instrument via the pressure transmission medium.

There are a wide variety of different designs, process connections and material combinations available for customer-specific solutions. The accurate pressure measurement of all ranges from approx. 10 mbar up to 3,600 bar [0.145 ... 52,214.4 psi], even at extreme temperatures (range -130 ... +400 °C [-202 ... +752 °F]), is thus possible under extreme conditions.



The realisation of your individual solution



Create your perfect diaphragm seal solution together with us. From the wide variety of realisable combinations, our technology experts will find a proven solution for your application. As required, we will adapt our systems to your individual application.

Talk to us – we are happy to provide you with advice!

Complete measuring and test cases

Scope of delivery

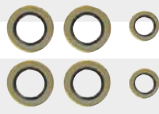
- Plastic case incl. with foam insert
 - Digital pressure gauge model CPG1200, process connection G 1/4, Measuring range -1 to 40 bar (other measuring ranges and process connections on request available) incl. protective rubber cap for case
 - Pneumatic hand test pump CPP40
 - 3.1 calibration certificate per DIN EN 10204
 - Operating instructions
 - 3 x 1.5 V AA alkaline batteries
 - Interface cable: Micro USB-B to USB cable (Length: approx. two metres)
 - Power supply unit 5V with micro-USB type B connector, 1000 mA, black, incl. adapter for US, EU, AU, UK
 - "BSP" adapter set for test item hose; with bar measuring ranges G 1/4, male thread to G 1/8, G 3/8 and G 1/2, female thread
- The calibration, test and measuring cases can alternatively be equipped individually according to your needs.



Option

- DKD/DAkkS-certified accuracy

Accessories

Description ¹⁾		Art. No.
	Micro-USB type B to USB cable Length: 2 m [6.6 ft]  May not be used in hazardous areas!	137908
	Bluetooth® USB stick  May not be used in hazardous areas! USB-BT500 – Bluetooth 5.0 USB adapter Interface: USB 2.0 Type A, Frequency: 2402-2480 MHz Connection/range: classic up to 10 meters; up to 40 meters in free space OS Support: Windows 10, Linux Dimensions: 7.1 x 14.9 x 17.4 mm, Weight: 1.9 g Enables wireless communication with Bluetooth-enabled CPG1200 digital pressure gauges. Compatible only with digital pressure gauge type CPG1200. Please note the radio regulations applicable in your country.	138459
	USB power supply unit Power supply unit, DC 5 V with Micro-USB type B connector 1,000 mA  May not be used in hazardous areas!	138438
	Protective case cap - Ex-approved For CPG1200 case	137905
	Plastic case For 1 x CPG1200 or 1 x CPG1500 for storage and transport. Through inside lying foam inserts also suitable with or without protective housing cap.  The plastic case is not permitted to be used in hazardous areas!	138520
	Plastic case For 3 x CPG1200 for storage and transport  The plastic case is not permitted to be used in hazardous areas!	on request
	Plastic case For 1 x digital pressure gauge, 1 x hydraulic hand test pump CPP700-H / CPP1000-H  The plastic case is not permitted to be used in hazardous areas!	on request
	For 1 x digital pressure gauge, 1 x CPP40 pneumatic hand test pump  The plastic case is not permitted to be used in hazardous areas!	136867
	Sealing set Consisting of: ■ 4 x G ½ USIT seals ■ 2 x G ¼ USIT seals ■ Plastic box	on request

¹⁾ The figures are an example and may change depending on the state of the art in design, material composition and representation.

Scope of delivery

- Digital pressure gauge model CPG1200
- 3 x 1.5 V AA alkaline batteries
- Operating instructions
- Calibration certificate (optional)

Ordering information

CPG1200 / Explosion protection / Ignition protection type / Zone / Communication / Unit / Pressure type / Measuring range / Process connection / Accuracy / Type of certificate / Ambient temperature / Version for special media / Data logger / Protective case cap / Software / Communications accessories / Interface cable / USB power supply units / Additional accessories / Carrying case / Further approvals / Additional ordering information

Accessories

	Art. No.	Type No.
Protective housing cap, silicone, for digital pressure gauge type CPG1200	137905	SK.CPG1200.EX
Micro USB type B on USB cable for digital pressure gauge type CPG1200, length 2.2 m	137908	MUSBK.CPG1200
USB power supply DC 5 V with Micro USB type B plug for digital pressure gauge type CPG1200, incl. adapter f. EU, US, UK, AU	138438	USBN.CPG1200
Bluetooth® USB stick for digital pressure gauge type CPG1200	138459	USBS.CPG1200
Plastic case for 1x digital pressure gauge type CPG1200 or CPG1500 for storage and transport	138520	K.CPG
Pressure gauge- screw connection, sealing cone, G 1/4 i., nut M12x1.5 i., pipe exterior Ø 6 mm, PN max. 315 bar, st. steel, FKM	112367	ES 581
Pressure gauge- screw connection, sealing cone, G 1/4 i., nut M14x1.5 i., pipe exterior Ø 8 mm, PN max. 315 bar, st. steel, FKM	112368	ES 582
Pressure gauge- screw connection, sealing cone, G 1/4 i., nut M16x1.5 i., pipe exterior Ø 10 mm, PN max. 315 bar, st. steel, FKM	112369	ES 583
Pressure gauge- screw connection, sealing cone, G 1/4 i., nut M18x1.5 i., pipe exterior Ø 12 mm, PN max. 315 bar, st. steel, FKM	112370	ES 584

Spareparts

	Art. No.	Type No.
Alkaline batteries, 3 x 1.5 V AA, for digital pressure gauge type CPG1200 and CPG1500, Ex approved	139152	AB.CPG.EX