



Calibration technology

Portable calibrators for on-site use






Smart in sensing

WIKA – Your partner in calibration technology

Hand-helds are portable calibration instruments for mobile use for the accurate measurement and recording of pressure profiles. There are interchangeable pressure sensors with measuring ranges of up to 10,000 bar available for the instruments. Through this, hand-helds are particularly suitable as test instruments for the largest variety of applications in the widest range of industries.

Recorded pressure profiles or complete calibration routines are automatically stored in the hand-held measuring instrument and can be documented and further analysed on a PC with the WIKA-Cal calibration software.

| | | | |
|----------------------------|--|--|---|
| |  |  |  |
| Model | CPG-KITP | CPG-KITH | CPH7000 |
| Measuring range | -1 ... +35 bar [-14.5 ... +500 psi] | 0 ... 1,000 bar [0 ... 15,000 psi] | Internal sensor: -1 ... +25 bar [-14.5 ... +350 psi] External sensor CPT7000: -1 ... +10,000 bar [-14.5 ... +150,000 psi] |
| Pressure generation | Manual with pneumatic hand test pump Range: -0.85 ... +30 bar [-13.5 ... +500 psi] | Manual with hydraulic hand test pump Range: 0 ... 1,000 bar [0 ... 15,000 psi] | Manual Range: -0.85 ... +25 bar [-12.3 ... +360 psi] |
| Accuracy | Reference instrument model CPG1500 with 0.025 % FS | Reference instrument model CPG1500 with 0.025 % FS | 0.025 % FS |
| Special features | <ul style="list-style-type: none"> ■ WIKA-Wireless technology ■ Logger function with up to 50 measured values / sec. ■ Software connection (WIKA-Cal, alternatively DCS) ■ Integrated temperature display ■ Intuitive menu navigation | <ul style="list-style-type: none"> ■ WIKA-Wireless technology ■ Logger function with up to 50 measured values / sec. ■ Software connection (WIKA-Cal, alternatively DCS) ■ Integrated temperature display ■ Intuitive menu navigation | <ul style="list-style-type: none"> ■ Intrinsically safe version available (ATEX) ■ Generation/measurement of 0 ... 24 mA, DC 24 V ■ WIKA-Wireless technology ■ Touchscreen colour display with display resolution up to 5 digits ■ Intuitive menu navigation |
| Data sheet | CT 93.01 | CT 93.02 | CT 15.51 |



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|--|--|--|
|  |    |   |
| CPH7650 | CPH8000-ET | CPH8000-P1 |
| -1 ... +6,000 bar [-14.5 ... +87,000 psi] with external reference sensor CPT6000 | -1 ... +700 bar [-14.5 ... +10,000 psi] | -1 ... + 700 bar [-14.5 ... 10,000 psi] |
| Electrical, range: -0.85 ... + 20 bar [-12 ... +290 psi] | External pressure generation | Manual, range: -0.85 ... +21 bar [-13 ... +300 psi] |
| Accuracy: 0.025 % FS | Accuracy: 0.025 % FS | Accuracy: 0.025 % FS |
| <ul style="list-style-type: none"> ■ Integrated electrical pressure generation ■ Robust case design, IP67 ■ Generation/measurement of 4 ... 20 mA, DC 24 V ■ Software connection WIKA-Cal ■ Interchangeable reference sensors CPT6000 | <ul style="list-style-type: none"> ■ Measurement and simulation of: pressure, electrical signals (mA, mV, V, Ω), temperature (TC, RTD), frequency and pulse ■ Innovative touchscreen colour display ■ Option: intrinsically safe version II 2G Ex ib IIC T4 Gb - Tamb: -10 ... +50 °C ■ Option: integrated HART® module for communication with HART® instruments | <ul style="list-style-type: none"> ■ Measurement and simulation of: pressure, electrical signals (mA, mV, V, Ω), temperature (TC, RTD), frequency and pulse ■ Innovative touchscreen colour display ■ Option: intrinsically safe version II 2G Ex ib IIC T4 Gb - Tamb: -10 ... +50 °C ■ Option: integrated HART® module for communication with HART® instruments |
| CT 17.02 | CT 18.03 | CT 18.03 |

The innovative one – calibration on-site

With pressure generation and calibration assistant

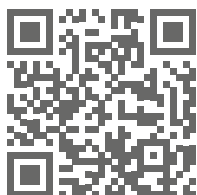
CPH7000



Description

The model CPH7000 process calibrator is a precise, portable calibrator for the calibration and checking of analogue pressure measuring instruments, pressure transmitters and process transmitters. The CPH7000 in Ex version can also be used in hazardous areas. Furthermore, pressure switches can be checked and the switch point determined. With the CPH7000, not only can transmitters be checked, but also simulated and tested.

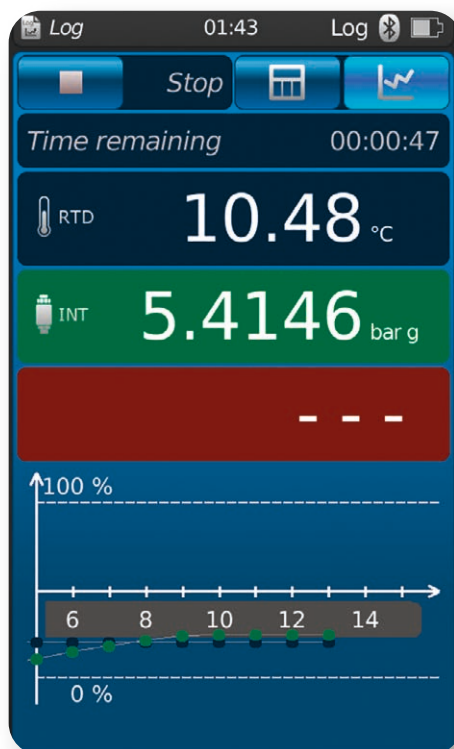
- Manual pressure generation of -0.85 ... +25 bar [-12.3 ... +360 psi]
- Accuracy: 0.025 % FS (incl. calibration certificate)
- Generation/measurement of 0 ... 24 mA and voltage supply DC 24 V
- Data logger with high measuring rate and large memory
- Intrinsically safe version
- External reference sensor CPT7000: -1 ... +10,000 bar [-14.5 ... +150,000 psi]



Quickly measuring the pressure in the system or carrying out a complete calibration of pressure gauges or electrical pressure sensors – sometimes this is essential on-site. The problem: Often, several individual test and auxiliary instruments are required which can make the set-up and process of the test difficult.

In order to reduce the expense of such applications, WIKA offers measuring instruments which incorporate all the required functions such as pressure and current/voltage supply, reference sensors and documentation of the test results in a single instrument. This enables a reliable, convenient on-site calibration in the shortest of times.

For use in particularly demanding environments, WIKA offers measuring instruments which are also ideally suited for Ex requirements.



The original

CPG-KITH, CPG-KITP



Description

The **CPG-KITH hydraulic service kit** is the ideal tool for the hydraulic testing, adjustment and calibration of mechanical and electronic pressure measuring instruments through comparative measurements or for the setting of pressure switches.

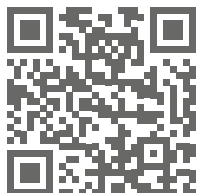
- Testing and adjustment of pressure gauges, pressure sensors, pressure switches or safety valves, final quality test, pressure drop test (leak test)
- Reference instrument model CPG1500 with 0.025 % FS
- Hydraulic version up to 1,000 bar [15,000 psi]
- Clear and simple operation



The **CPG1500 precision digital pressure gauge** can also be communicated with via smartphone. The corresponding mobile app, "myWIKa device", can be downloaded free of charge from the Google Play Store / i-store.



Via the app and the WIKa-Wireless connection, the CPG1500 can be conveniently configured for test and calibration tasks via mobile phone. During the pressure measurement, the measured value is shown on the display in the desired unit. Moreover, users can access further parameters such as temperature and pressure change rate. The app also enables the configuration, control and storage of log operations. Since the app also communicates with the WIKa-Cal software, the log data can be transmitted wirelessly for further processing on a suitable computer.





CPG-KITP

Pneumatic service kit



Description

The CPG-KITP pneumatic service kit is the ideal tool for the pneumatic testing, adjustment and calibration of mechanical and electronic pressure measuring instruments through comparative measurements or for the setting of pressure switches.

- Testing and adjustment of pressure gauges, pressure sensors, pressure switches or safety valves, final quality test, pressure drop test (leak test)
- Reference instrument model CPG1500 with 0.025 % FS
- Pneumatic version up to 40 bar [580 psi] (max. pressure generation with hand test pump -0.95 ... +35 bar [-13.5 ... 500 psi])
- Clear and simple operation



The robust one

With integrated electrical pump

CPH7650

Description

The **portable pressure calibrator model CPH7650** is a compact, portable pressure calibrator, which has been designed for mobile use as well as for stationary workshop and laboratory testing. An **integrated electrical pump** enables you to generate pressures up to 20 bar [300 psi] and an integrated electrical module also enables you to supply transmitters or sensors with a current of max. 30 mA (voltage (idling) = DC 24 V), in addition to the traditional measurement of current and voltage signals.

- Measurement and electrical pressure generation at the touch of a button with integrated pump, from -0.85 ... +20 bar [-12 ... 290 psi]
- Accuracy: 0.025 % FS, measuring range of the CPT6000: -1 ... +6,000 bar [-14.5 ... +87,000 psi]
- Generation/measurement of 4 ... 20 mA, and DC 24 V voltage supply to power transmitters
- Robust case design, IP67



The exchangeable model CPT6000 reference sensor offers an accuracy of 0.025 % of span. The temperature compensation of the built-in sensor safeguards the accuracy for applications in the field.



The all-rounder

Multi-function calibrator in hand-held design

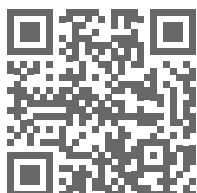
CPH8000-ET



Description

The **CPH8000-ET** is an advanced portable **multi-function calibrator** for the measurement and simulation of the following parameters: gauge and absolute pressure, electrical signals (mA, mV, V, Ω), temperature (TC, RTD), frequency and pulses. In addition, there is the possibility to include an optional HART® module which allows communication with HART® instruments.

- Measurement and simulation of: pressure, electrical signals (mA, mV, V, Ω), temperature (TC, RTD), frequency and pulse
- Large colour display with new intuitive and user-friendly interface
- Integrated data logger and calibration function
- Option: intrinsically safe version II 2G Ex ib IIC T4 Gb - Tamb: -10 ... +50 °C
- Option: integrated HART® module for communication with HART® instruments





Multi-function calibrator in case design

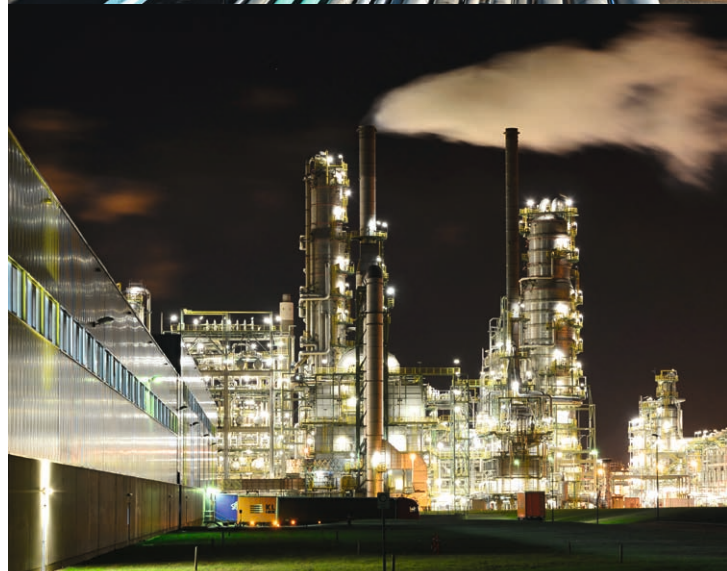
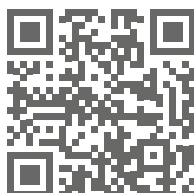
CPH8000-P1



Description

The **CPH8000-P1** is an advanced portable **multi-function calibrator** with integrated **pneumatic pressure generation** for the measurement and simulation of the following parameters: gauge and absolute pressure, electrical signals (mA, mV, V, Ω), temperature (TC, RTD), frequency and pulses. In addition, there is the possibility to include an optional HART® module which allows communication with HART® instruments.

- Measurement and simulation of: pressure, electrical signals (mA, mV, V, Ω), temperature (TC, RTD), frequency and pulse
- Large colour display with new intuitive and user-friendly interface
- Internal pressure/vacuum generation -0.9 ... +21 bar [-13 ... +300 psi]
- Option: intrinsically safe version II 2G Ex ib IIC T4 Gb - Tamb: -10 ... +50 °C
- Option: integrated HART® module for communication with HART® instruments



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You can find further
information here!



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