

Portable process calibrator Model CPH7000

WIKA data sheet CT 15.51



for further approvals
see page 6 - 7

Applications

- Calibration service companies and service industry
- Measurement and control laboratories
- Quality assurance
- On-site calibration (safety also in hazardous areas)

Special features

- 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



Portable process calibrator model CPH7000 with optional hand pump

Fig. left: For the hazardous areas

Fig. right: Standard version

Description

General information

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 switching point determined. With the CPH7000, not only can transmitters be checked, but also simulated and tested.

Design

The CPH7000 optionally features an integrated reference pressure sensor and also a manual pressure generation, with which pressures of -0.85 ... +25 bar [12.3 ... +360 psi] can be generated. It is possible to simultaneously power an external transmitter via the electrical module and to measure (or also simulate) its output signal.

Functions

The calibrator offers the possibility to set calibration routines quickly and easily, but also to run preconfigured calibration routines and automatically save the measured values. Over the WIKA-Wireless interface, the completed calibration processes can be transmitted to a PC. This data can subsequently be evaluated and archived using WIKA-Cal software. Thus a completely paperless transmitter calibration is possible with just the CPH7000.

Accuracy

The CPH7000 is temperature compensated and achieves an accuracy of 0.025 % of span. In order to avoid intricate calculations, the measured values can also be displayed directly in customer-specific units.

Features

For pressures greater than 25 bar [362.6 psi], there are the model CPT7000 external pressure sensors. Thus pressure measurement and calibration is possible in further pressure measuring ranges and accuracies. An optional atmospheric module and an internal barometer record and document the environmental parameters important for a calibration, such as atmospheric pressure, air humidity and ambient temperature.

Complete service case

The process calibrator, developed specifically for maintenance and service operations, is delivered in a portable case system and, depending on requirements, can be equipped with, for example, model CPT7000 external pressure sensors, a Pt100 temperature sensor or a portable system with storage bag.

Software

The calibration software for the CPH7000 is WIKA-Cal. WIKA-Cal, alongside PC-supported calibration and the logger function, also offers the management of the calibration and instrument data in an SQL database. The data transfer is achieved completely wirelessly via WIKA-Wireless.

Certified accuracy

For the model CPH7000 process calibrator, the accuracy is certified in a factory calibration certificate accompanying the instrument. On request, we can provide a DKD/DAkkS calibration certificate.

Specifications

Digital process calibrator model CPH7000		
Display		
Display	Touchscreen colour display	
Display resolution	up to 5 digits; selectable	
Pressure units	mbar, bar, psi, Pa, kPa, hPa, MPa, mmHg, cmHg, inHg, mmH ₂ O, mH ₂ O, inH ₂ O (4 °C), inH ₂ O (20 °C), inH ₂ O (60 °F), inHg (0 °C), inHg (60 °F), kg/cm ² , kp/cm ² , lbf/ft ² , kN/m ² , atm, Torr, micron, g/l (20 °C), kg/m ³ (20 °C) as well as two user-defined units	
Settings		
Applications (Apps)	Measure, calibrate, logger, switch test	
Measuring rate	Pressure Current/Voltage Application pressure switch Pt100/AMB module	50/s 60/s 60/s 1/s
Refresh rate display	4/s	
Menu languages	English, German, Spanish, French, Italian, Russian, Arabic, Chinese (settable)	
Connections		
External pressure sensor ¹⁾	max. 2, compatible with model CPT7000 reference pressure sensors	
External ambient module ¹⁾	max. 1 ambient module ²⁾	
External temperature probe ¹⁾	max. 1 temperature probe ²⁾	
Manual pressure generation ¹⁾	-0.85 ... +25 bar [-12.3 ... +360 psi]	
Voltage supply		
Power supply	internal Lithium-Ion rechargeable battery (typical charging time < 7 h)	
Battery life	minimum 8 hours ³⁾	
Permissible ambient conditions		
Operating temperature	-10 ... +50 °C [14 ... 122 °F]	
Storage temperature	-20 ... +50 °C [-4 ... +122 °F]	
Ambient temperature when charging	0 ... 40 °C [32 ... 104 °F] (only allowed outside the hazardous areas)	

1) Optional

2) Temperature probe and ambient module use the same connection. Cannot be used at the same time.

3) Continuous operation (without backlighting, WIKA-Wireless deactivated and the electrical module gives no voltage/current).

Digital process calibrator model CPH7000

Air humidity	at 35 °C [95 °F]: max. 90 % r. h. (non-condensing) at 40 °C [104 °F]: max. 75 % r. h. (non-condensing) at 50 °C [122 °F]: max. 45 % r. h. (non-condensing)
Shock and vibration	15 g per EN 60068-2-6
Communication	
Interface	WIKA-Wireless ⁴⁾
Case	
Material	PC + ABS blend
Ingress protection	IP54 category 2 (tested according to ATEX and IECEx: IP20)
Dimensions	see technical drawing
Weight	approx. 1.9 kg [4.19 lbs.] without internal pump and reference sensor approx. 2.5 kg [5.51 lbs.] incl. internal pump and reference sensor

Internal sensor technology

Pressure ⁵⁾						
Gauge pressure	bar	-1 ... +1	-1 ... 5	-1 ... 10	-1 ... 20	-1 ... 25
	psi	-14.5 ... +15	-14.5 ... +70	-14.5 ... +150	-14.5 ... +300	-14.5 ... +350
Absolute pressure	bar abs.	0 ... 1.6	0 ... 6	0 ... 10	0 ... 20	0 ... 25
	psi abs.	0 ... 15	0 ... 100	0 ... 150	0 ... 300	0 ... 350
Overpressure safety	3 times					
Accuracy of the measuring chain ⁶⁾	0.025 % of span ⁷⁾					
Resolution	5 digits					
Pressure connection	G ½ female thread or ½ NPT female thread (only with selected pneumatic unit)					
Barometric reference ^{1) 8)}						
Measuring range	850 ... 1,100 mbar [12.3 ... 16 psi]					
Accuracy	±1 mbar					
Electrical safety						
Resistance to overvoltage	Yes					
Short-circuit resistant	Yes					
Reverse polarity protection	Yes					
Voltage-resistant	Up to 60 V					
Input impedance						
Current measurement	20 Ω					
Voltage measurement	1 MΩ					
Current						
Measuring input	0 ... 30 mA					
Supply	0 ... 24 mA					
Resolution	1 µA					
Accuracy	Measure: 0.01 % ±1 µA Supply: 0.01 % ±2 µA ⁹⁾					

1) Optional

4) Requires a PC with Bluetooth® 2.1 interface

5) The internal reference sensor is only available in combination with a pneumatic unit.

6) It is defined by the total measurement uncertainty, which is expressed with the coverage factor (k = 2) and includes the following factors: the intrinsic performance of the instrument, the measurement uncertainty of the reference instrument, long-term stability, influence of ambient conditions, drift and temperature effects over the compensated range during a periodic zero point correction.

7) Calibrated at 23 °C [74 °F] and in vertical mounting position.

8) The barometric reference can be used to switch pressure types, absolute <=> gauge. With gauge pressure sensors, the measuring range of the sensors must begin with -1 bar [-15 psi] in order to carry out a complete absolute pressure emulation.

9) In the event of interference caused by high-frequency electromagnetic fields in a frequency range of 200 ... 300 MHz, an increased deviation of up to 0.1 % is expected for the current output function.

Internal sensor technology	
Voltage	
Measuring input	DC 0 ... 30 V
Supply	DC 24 V
Resolution	1 mV
Accuracy	0.01 % or reading ± 1 mV

Safety-related characteristic values			
Parameters	Connector V OUT	Connector V IN	Connector mA
Max. output voltage	$U_o = \text{DC } 28.9 \text{ V}$	$U_o = \text{DC } 9.6 \text{ V}$	$U_o = \text{DC } 9.6 \text{ V}$
Max. output current	$I_o = 97 \text{ mA}$	$I_o = 0.02 \text{ mA}$	$I_o = 3 \text{ mA}$
Max. output power	$P_o = 705 \text{ mW}$	$P_o = 1 \text{ mW}$	$P_o = 10 \text{ mW}$
Max. external capacitance	$C_o = 63 \text{ nF}$	$C_o = 3.6 \text{ }\mu\text{F}$	$C_o = 3.6 \text{ }\mu\text{F}$
Max. external inductance	$L_o = 340 \text{ }\mu\text{H}$	$L_o = 100 \text{ mH}$	$L_o = 100 \text{ mH}$
Max. input voltage	-	$U_i = \text{DC } 30 \text{ V}$	$U_i = \text{DC } 30 \text{ V}$
Max. input current	-	-	$I_i = 100 \text{ mA}$
Max. input power	-	-	$P_i = 800 \text{ mW}$
Effective internal capacitance	-	$C_i = 12 \text{ nF}$	$C_i = 12 \text{ nF}$
Effective internal inductance	-	L_i negligible	L_i negligible

Power supply unit model FW7530	
Input voltage	AC 100 ... 240 V, 50 ... 60 Hz
Output voltage	DC 12 V
Nominal Output current	2,500 mA
Permissible ambient conditions	
Operating temperature	0 ... 40 °C [32 ... +104 °F]; up to 90 % r. h. (non-condensing)
Storage temperature	-40 ... +70 °C [-40 ... +158 °F]
Air humidity	20 ... 80 % r. h. (non-condensing)

Temperature probe Pt100 ¹⁾	
Measuring range	-50 ... +250 °C [-58 ... +482 °F]
Accuracy	1/10 DIN, class B ± 0.1 °C
Probe length	200 mm [7.87 in]
Probe diameter	3 mm [0.12 in]
Cable length	1 m [3.28 ft]
Connection to CPH7000	max. 1 temperature probe ²⁾
User-defined RTD probe	Input of the coefficients of R0, A, B and C

Ambient module ¹⁾	
Measuring range	
Air humidity	0 ... 100 % r. h.
Temperature	-30 ... +125 °C [-22 ... +257 °F]
Accuracy	
Air humidity	± 5 % r. h.
Temperature	$\pm 0.2 \text{ K}$ [0.36 °F]
Connection to CPH7000	max. 1 ambient module ²⁾

1) Optional

2) Temperature probe and ambient module use the same connection.
Cannot be used at the same time.

WIKA-Wireless ⁴⁾	
Frequency range	2,400 ... 2,500 MHz
HF output power	max. 2 dBm (+ 2 dBi)
Number of channels	79
Channel spacing	1 MHz
Bandwidth	80 MHz
Output power	4 dBm / 10 mW

Reference pressure sensor model CPT7000							
Pressure range							
Gauge pressure	bar	-0.25 ... +0.25	-0.4 ... +0.4	-0.6 ... +0.6	-1 ... 0	-1 ... +0.6	
		-1 ... +1	-1 ... +1.5	-1 ... +2.5	-1 ... +3	-1 ... +5	
		-1 ... +9	-1 ... +10	-1 ... +15	-1 ... +24	-1 ... +25	
		-1 ... +39	-1 ... +40				
		0 ... 0.4	0 ... 0.6	0 ... 1	0 ... 1.6	0 ... 2.5	
		0 ... 4	0 ... 6	0 ... 10	0 ... 16	0 ... 25	
		0 ... 40	0 ... 60	0 ... 100	0 ... 160	0 ... 250	
		0 ... 400	0 ... 600	0 ... 700	0 ... 1.000	0 ... 1,600 ¹⁰⁾	
		0 ... 2,500 ¹⁰⁾	0 ... 4,000 ¹⁰⁾	0 ... 5,000 ¹⁰⁾	0 ... 6,000 ¹⁰⁾	0 ... 7,000 ¹⁰⁾	
		0 ... 8,000 ¹⁰⁾	0 ... 9,000 ¹⁰⁾	0 ... 10,000 ¹⁰⁾			
	psi	-14,5 ... 0	-8 ... +8	-14,5 ... +15	-14,5 ... +40	-14,5 ... 70	
		-14,5 ... +100	-14,5 ... +130	-14,5 ... +300			
		0 ... 5	0 ... 10	0 ... 20	0 ... 30	0 ... 50	
		0 ... 60	0 ... 100	0 ... 150	0 ... 160	0 ... 200	
		0 ... 300	0 ... 500	0 ... 700	0 ... 1.000	0 ... 1.500	
		0 ... 2.000	0 ... 3.000	0 ... 5.000	0 ... 6.000	0 ... 8.000	
		0 ... 10.000	0 ... 15.000	0 ... 20.000	0 ... 30.000	0 ... 50.000	
		0 ... 100.000	0 ... 150.000				
	Absolute pressure	bar abs.	0 ... 1	0 ... 1.6	0 ... 2.5	0 ... 4	0 ... 6
			0 ... 10	0 ... 16	0 ... 25	0 ... 40	
		psi abs.	0 ... 15	0 ... 20	0 ... 30	0 ... 50	0 ... 60
			0 ... 100	0 ... 150	0 ... 200	0 ... 300	0 ... 500
Overpressure safety	3 times; < 25 bar 2 times; > 25 bar ... ≤ 600 bar 1.5 times; > 600 bar ... ≤ 1,600 bar 1.3 times; > 1,600 bar ... ≤ 6,000 bar 1.1 times; > 6,000 bar			3 times; < 360 psi 2 times; > 360 psi ... ≤ 8,700 psi 1.5 times; > 8,700 psi ... ≤ 25,000 psi 1.3 times; > 25,000 psi ... ≤ 85,000 psi 1.1 times; > 85,000 bar			
Process connection							
Selectable versions	■ G ⅜ B ■ G ¼ B ■ G ¼ female ■ G ½ B ■ G ½ male on G ¼ female			■ G ½ B flush with O-ring of NBR ■ G ½ B flush with O-ring of EPDM ■ G 1 B flush with O-ring of NBR ■ G 1 B flush with O-ring of EPDM			
	■ ¼ NPT ■ ½ NPT			■ ½ NPT male on ¼ NPT female ■ ½ NPT female			
	■ M16 x 1.5 female with sealing cone ■ M18 x 1.5 male on G ¼ female			■ M20 x 1.5 ■ M20 x 1.5 female with sealing cone			
	■ 9/16-18 UNF female F250-C						
	■ R ½ per ISO7 (DIN 2999)						

4) Requires a PC with Bluetooth® 2.1 interface

10) > 1,000 ... < 4,000 bar [> 14,500 ... < 60,000 psi]: expanded accuracy of 0.15 % FS
 ≥ 4,000 bar [≥ 60,000 psi]: expanded accuracy of 0.25 % FS

Reference pressure sensor model CPT7000

Sensor data

Accuracy ⁶⁾	0.025 % of span ⁷⁾
Resolution	5 digits
Compensated range	10 ... 60 °C [50 ... 140 °F]

Material

Wetted parts	Stainless steel (with measuring ranges ≤ 25 bar [≤ 360 psi] Elgiloy® in addition)
Internal transmission fluid	Synthetic oil (only for measuring ranges up to 25 bar [360 psi])

Reference conditions per IEC 61298-1

Atmospheric pressure	860 hPa < P < 1,060 hPa [12.5 psi < P < 15.4 psi]
Ambient temperature	18 °C < T < 28 °C, typ. 23 °C
Air humidity	35 % r. h. < T < 95 % r. h. , typ. 55 % r. h.
Position	Hand-held lying face-up

Permissible ambient conditions

Medium temperature	-20 ... +60 °C [-4 ... +140 °F] ¹¹⁾ -20 ... +85 °C [-4 ... +185 °F]
Operating temperature	-20 ... +60 °C [-4 ... +140 °F]
Storage temperature	-20 ... +85 °C [-4 ... +185 °F]
Relative humidity	0 ... 95 % r. h. (non-condensing)
Temperature compensation	10 ... 60 °C [50 ... 140 °F]
Temperature coefficient	Zero point = 0.1 % / 10 K Span = 0.1 % / 10 K

Case




Material	Stainless steel
Connection to the CPH7000	Option: external operation via 1 m or 3 m [3.28 ft or 9.84 ft] connection cable (plug-and-play)
Ingress protection	IP65 / IP67 when connected
Dimensions	see technical drawing
Weight	approx. 230 g [0.5 lbs.]









6) It is defined by the total measurement uncertainty, which is expressed with the coverage factor (k = 2) and includes the following factors: the intrinsic performance of the instrument, the measurement uncertainty of the reference instrument, long-term stability, influence of ambient conditions, drift and temperature effects over the compensated range during a periodic zero point correction.

7) Calibrated at 23 °C [74 °F] and in vertical mounting position

11) For oxygen versions, the medium temperature must not exceed 60 °C [140 °F].

Approvals

Logo	Description	Country
  	EU declaration of conformity for CPH7000 <ul style="list-style-type: none"> ■ EMC directive EN 61326 emission (group 1, class B) and interference immunity (portable measuring equipment) ■ RED directive EN 300 328 harmonised frequency range 2,400 ... 2,500 MHz is used; Bluetooth® Classic, max. transmission power 10 mW. The instrument may be used without limitations in the EU and also CH, NO and LI. Protection of health and safety ■ RoHS directive ■ ATEX directive (option) Hazardous areas - Ex i Zone 1 gas <p style="text-align: right;">II 2G Ex ib IIC T4 Gb</p>	European Union

Logo	Description	Country
 	EU declaration of conformity for CPT7000 <ul style="list-style-type: none"> ■ EMC directive EN 61326 emission (group 1, class B) and interference immunity (industrial application) ■ Pressure equipment directive PS > 200 bar, module A, pressure accessory ■ RoHS directive ■ ATEX directive (option) Hazardous areas <ul style="list-style-type: none"> - Ex i Zone 0 gas II 1G Ex ia IIC T4 Ga Zone 1 mounting to zone 0 gas II 1/2G Ex ia IIC T4 Ga/Gb Zone 20 dust II 1D Ex ia IIIC T135°C Da Zone 21 mounting to Zone 20 dust II 1/2D Ex ia IIIC T135°C Da/Db 	European Union
	IECEx for CPH7000 (option) Hazardous areas - Ex i Zone 1 gas Ex ib IIC T4 Gb	International
	IECEx for CPT7000 (option) Hazardous areas - Ex i Zone 0 gas Ex ia IIC T4 Ga Zone 1 mounting to zone 0 gas Ex ia IIC T4 Ga/Gb Zone 20 dust Ex ia IIIC T135°C Da Zone 21 mounting to zone 20 dust Ex ia IIIC T135°C Da/Db	International
	EAC (option) <ul style="list-style-type: none"> ■ EMC directive ■ Low voltage directive 	Eurasian Economic Community
	GOST (option) Metrology, measurement technology	Russia
	KazInMetr (option) Metrology, measurement technology	Kazakhstan
-	MTSCHS (option) Permission for commissioning	Kazakhstan
	Uzstandard (option) Metrology, measurement technology	Uzbekistan

Certificates

Certificate	
Calibration	Standard: 3.1 calibration certificate per EN 10204 Option: DKD/DAkkS calibration certificate
Recommended recalibration interval	1 year (dependent on conditions of use)

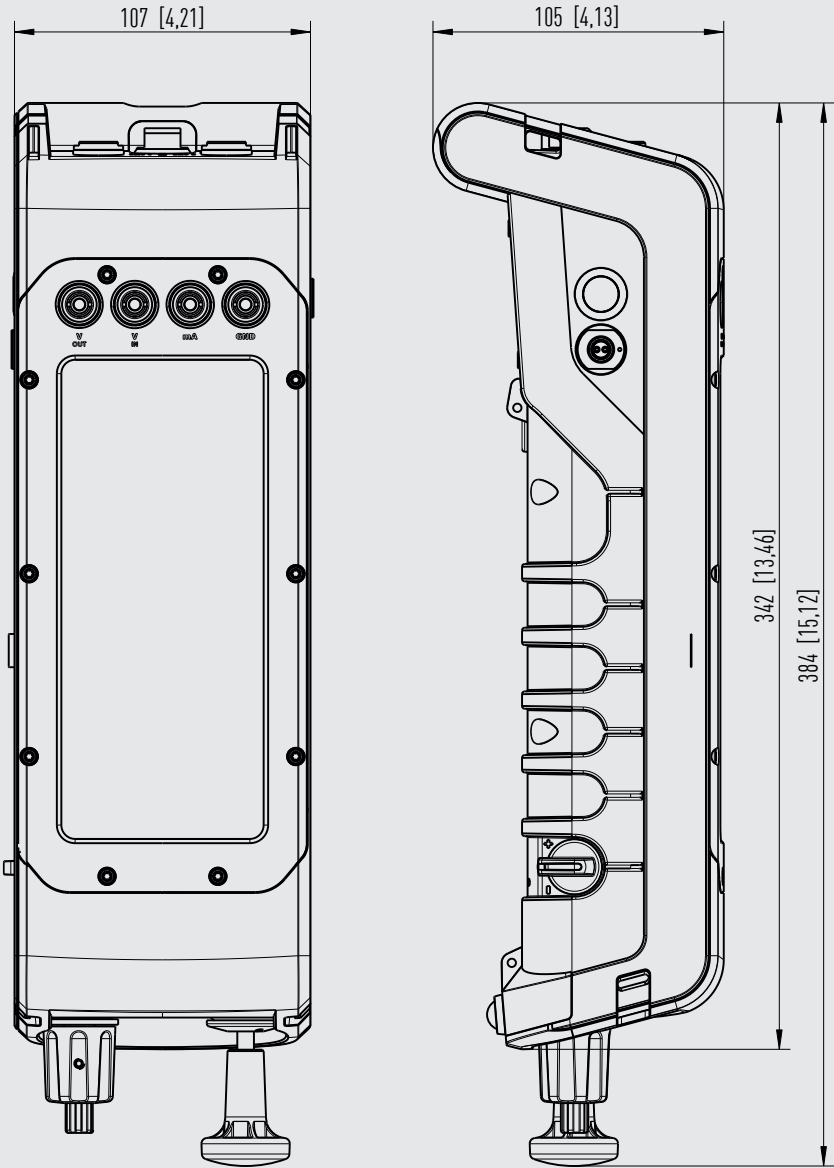
Patents, property rights

Patents	
Design	Registered under USD 786.719S

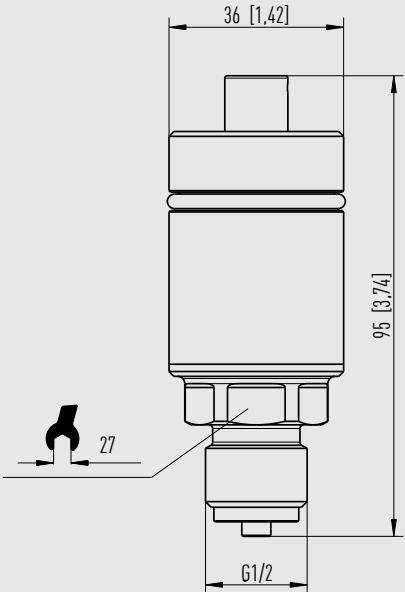
Approvals and certificates, see website

Dimensions in mm [in]

Digital process calibrator model CPH7000



Reference pressure sensor model CPT7000



Application icons (app)

The home screen is very clearly subdivided into application-oriented apps:

Measure:

Display of 3 different measurements

Logger:

Simultaneous recording of up to 3 signals

Info:

All instrument information available at a glance

Remote:

WIKA-Wireless radio transmission settings

Calibrate:

Setting of calibrations using calibration assistant

Switch test:

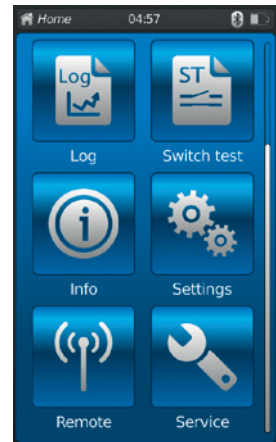
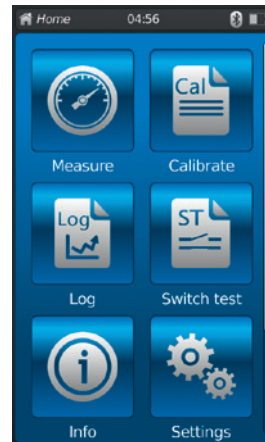
Testing of pressure switches (NC or NO)

Settings:

General instrument settings

Service:

All service data at a glance



Special operating modes

Operating mode: Measure

Features

- 3 different measurements in one view
- 30 pressure units + 2 programmable units
- Resolution: Up to 4 decimal places
- Graphical display via bargraph
- Optionally settable functions: Min/Max/Tare/Filter/Alarm min/Alarm max/Mean value/Rate/Sensor temperature

Applications

- Measurement of operating/process pressures
- Comparative measurements with test items (power supply and display for the test item through the CPH7000)
- Maximum and Minimum memory (e.g. for leak testing)
- Alarm function for safety testing

For further information see the operating instruction.

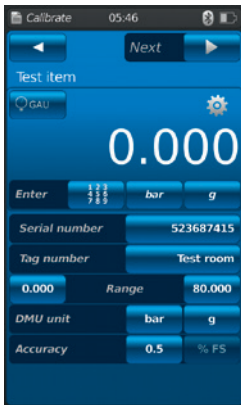


Representation of possible measuring channels

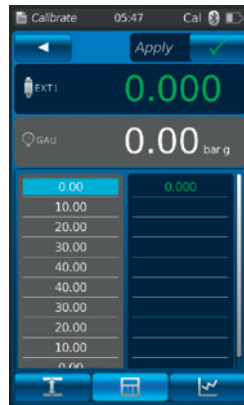


Selection of the type of measurement or calibration

Operating mode: Calibrate



Menu screen of the operating mode "Calibration"



Representation of calibration results as table



Representation of calibration results as graph

Features

- Calibration assistant
- Supply with pressure, current and voltage
- Calibration protocol is automatically saved

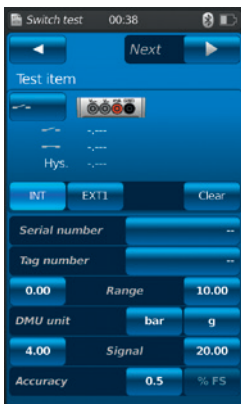
Applications

- On-site calibration of pressure sensor and pressure measuring instruments (without PC)
- A calibration assistant guides you easily through the calibration (following DKD/DAkkS). With this, the data sets, including date and time, are recorded within the CPH7000.
- Prior to calibration, the calibration routines can be set directly on the instrument or uploaded via WIKA-Cal software.
- Up to 100 calibrations can be stored
- Re-calibrations possible

PC software available

Communication with WIKA-Cal calibration software via WIKA-Wireless

Operating mode: Switch test



Menu screen of the operating mode "Switch test"

Features

- Pressure display on the closing and opening of the switch
- Automatic calculation of the hysteresis

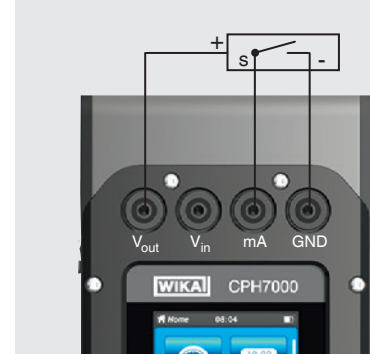
Applications

- On-site functional check of pressure switches (without PC)
- Determination of the switch point accuracy and repeatability
- Determination of the switch point hysteresis

Switch test with external voltage supply



Switch test with voltage supply DC 24 V of the CPH7000



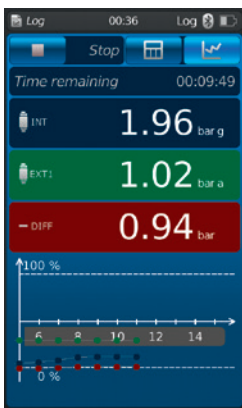
Operating mode: Logger



Menu screen of the operating mode „Logger“

Time remaining	00:09:43
00:36:58.5	1.95
00:36:57.5	1.95
00:36:56.5	1.96
00:36:55.5	1.96
00:36:55.0	1.96
00:36:53.5	1.96
00:36:52.5	1.96
00:36:51.5	1.96
00:36:50.5	1.85
00:36:49.5	0.97
00:36:48.5	0.46

Representation of logger results as table



Representation of logger results as graph

Features

- Logging of max. 3 signals/measured value at the same time
- Automatic or manual data acquisition
- Direct display as graph or table
- Logger protocols are automatically saved

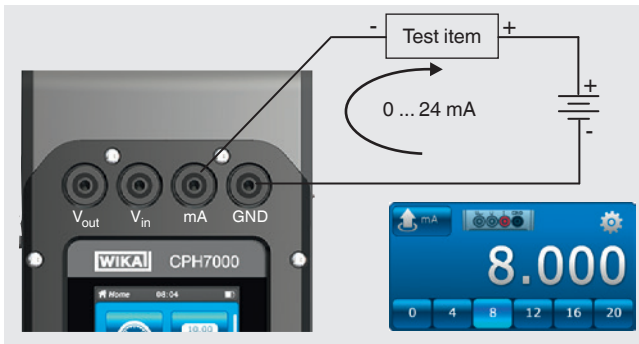
Applications

- Logging of current, voltage, pressure and temperature
- The logger menu guides one, step by step, through the logger process. The data sets, incl. date and time, are automatically saved in the CPH7000.
- Before logging the data, routines can be set directly on the instrument or uploaded via WIKA-Cal software.
- Re-logging possible

PC software available

Communication with WIKA-Cal calibration software via WIKA-Wireless

Operating mode: Simulation of transmitter signals



Features

Manual or automatic current source function

Applications

The CPH7000 can be connected in place of a transmitter within a current loop and used as a current source.

The transmitter output signals from 0 ... 24 mA can be simulated through manual input or automatically using the ramp and step functions.

WIKI-Cal calibration software

Easy and fast creation of a high-quality calibration certificate

The WIKI-Cal calibration software is used for generating calibration certificates or logger protocols for pressure measuring instruments and is available as a demo version for a cost-free download.

A template helps the user and guides him through the creation process of a document.

In order to switch from the demo version to a full version of the respective template, a USB key with the template has to be purchased.

The pre-installed demo version automatically changes to the selected full version when the USB key is inserted and is available as long as the USB key is connected to the computer.



- Creation of calibration certificates for mechanical and electronic pressure measuring instruments
- A calibration assistant guides you through the calibration
- Automatic generation of the calibration steps
- Generation of 3.1 certificates per DIN EN 10204
- Creation of logger protocols
- User-friendly interface
- Languages: German, English, Italian and more due with software updates

For further information see data sheet CT 95.10

Calibration certificates can be created with the Cal-Template and logger protocols can be created with the Log-Template.



Cal Demo

Generation of calibration certificates limited to 2 measuring points, with automatic initiation of pressures via a pressure controller.



Cal Light

Generation of calibration certificates with no limitations on measuring points, without automatic initiation of pressures via a pressure controller.



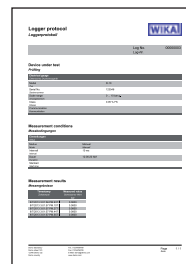
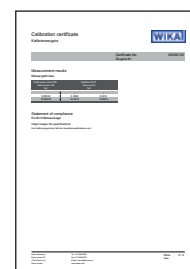
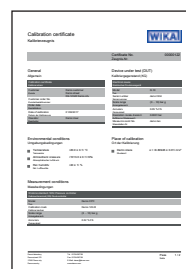
Log Demo

Creation of data logger test reports, limited to 5 measured values.









Log

Creation of data logger test reports without limiting the measured values.



Accessories

		Order code
Special features		CPH-A-70-
	Adapter set "Standard" Consisting of: ■ G 1/2 male to G 1/2, G 1/4, 1/2 NPT or 1/4 NPT female ■ Sealing set	-G-
	Adapter set for 4 mm hose connection Consisting of: ■ G 1/8 female to G 1/2, G 1/4, 1/2 NPT or 1/4 NPT female ■ 1 m hose ■ 5 hose coupling ■ Sealing set	-F-
	Adapter set with hose connection Consisting of: G 1/8 via hose to G 1/4, G 1/2, 1/4 NPT or 1/2 NPT female	-7-
	Pressure connection set model Minimes 1620 incl. test item hose, length 1 m [3.28 ft] May not be used in hazardous areas!	-8-
	Dirt trap set "Standard" Consisting of: ■ Dirt trap ■ Sealing set ■ Hose ■ Hose connection G 1/8 via hose to G 1/4, G 1/2, 1/4 NPT or 1/2 NPT female May not be used in hazardous areas!	-L-
	Dirt trap set with knurled nut Consisting of: ■ Dirt trap ■ Knurled nut ■ Sealing set ■ Hose ■ Hose connection G 1/8 via hose to G 1/4, G 1/2, 1/4 NPT or 1/2 NPT female May not be used in hazardous areas!	-M-
	Sealing set Consisting of: ■ 4 x G 1/2 USIT seals ■ 2 x G 1/4 USIT seals ■ Plastic box	-D-
	Plastic case For 1 x process calibrator model CPH7000 for storage and transport May not be used in hazardous areas!	-K-
	Carrying system May not be used in hazardous areas!	-U-
	Belt and accessory bag May not be used in hazardous areas!	-A-
	Carrying system and accessory belt bag May not be used in hazardous areas!	-W-

		Order code
Special features		CPH-A-70-
	Test cable set ■ 3 x black ■ 3 x red ■ Various adapters	-T-
	Sensor connection cable for reference pressure sensor model CPT7000; length 1 m [3.28 ft]	-S-
	for reference pressure sensor model CPT7000; length 3 m [9.84]	-V-
	Temperature probe Pt100 (uncalibrated) For hazardous areas only standard probes with the number 14113648 may be used!	-P-
	Atmospheric module	-E-
	Power supply unit May not be used in hazardous area!	-N-
	WIKA-Wireless USB Stick May not be used in hazardous area!	-B-
Ordering information for your request		
1. Order code: CPH-A-70 2. Option:		↓ []

Scope of delivery

- Process calibrator model CPH7000
- Power supply unit
- Operating instructions
- Service case with 2 connection cables (4 mm plugs)
- 3.1 calibration certificate per DIN EN 10204

Options

- DKD/DAkkS calibration certificate



Process calibrator model CPH7000



**Service case with process calibrator and accessories
(completely equipped)**

Ordering information

CPH7000 / Version / Pressure generation / Unit / Pressure type / Measuring range / Accuracy / Type of certificate / Barometer / Barometer calibration / Atmospheric module / Atmospheric module calibration / Temperature probe / Temperature probe calibration / Electrical module calibration / Communication / Software / Pressure connection set / Carrying system / Transport case / Further approvals / Additional ordering information

CPT7000 / Version / Unit / Pressure type / Measuring range / Process connection / Medium temperature / Wetted parts / Special design for media / Accuracy / Type of certificate / Sensor cable / Further approvals / Additional ordering information

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