Hand-held pressure indicators Model CPH6200-S1 (1-channel version) Model CPH6200-S2 (2-channel version)

WIKA data sheet CT 11.01

Applications

- Calibration service companies and service industry
- Instrument and control workshops
- Quality assurance

Special features

- Digital instrument with external pressure sensor (plug and play)
- Pressure ranges: from 0 ... 100 mbar up to 0 ... 1,000 bar
- Pressure type: gauge (+/-) and absolute pressure
- Certified accuracy: 0.2 %,optional: 0.1 % (incl. calibration certificate)
- Data logger evaluation software GSoft, calibration software EasyCal light and fully cased service sets (incl. pumps) available



Hand-held pressure indicator CPH6200-S1 with optional reference pressure sensor CPT6200

Description

Areas of application

Pressure sensors with ranges up to 1,000 bar are available for the CPH6200 digital indicator. This makes it especially suited to the process technology, mechanical engineering and mobile hydraulics industries. The digital instrument recognises the range of the connected pressure sensor automatically and guarantees high precision.

Functionality

Both gauge and absolute pressure ranges can be measured, and by using the 2-channel version CPH6200-S2 with two connected pressure sensors it is also possible to measure differential pressure. Via a menu selection, pressures can be displayed in bar, mbar, psi, kPa, MPa, mmHg or inHg. An integrated data logger and various other functions (like MIN, MAX, HOLD, TARE, Offset-correction, ALARM, POWER-OFF, 3 SAMPLE RATES, SEALEVEL etc.) ensure that the instrument can be used for many different applications.

Complete test and service cases

For maintenance and service applications various service cases are available. These include pressure service sets with or without pressure pump, with charger, adapter, etc. or service sets with an additional hand-held thermometer CTH6200.

Software

The Data logger evaluation software (GSoft) enables the display of recorded data, as tables or charts, on a PC and the calibration software (EasyCal light) is available for calibration tasks.

Certified precision

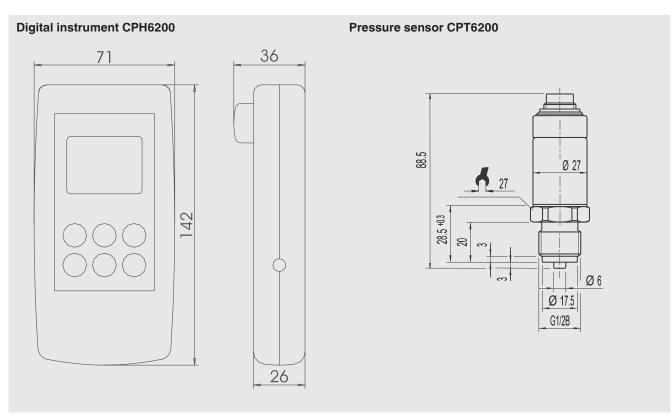
A factory calibration certificate for each pressure sensor certifies the total uncertainty of the measuring chain. Alternatively, on request, a DKD/DAkkS calibration certificate can be supplied.

WIKA data sheet CT 11.01 · 07/2010

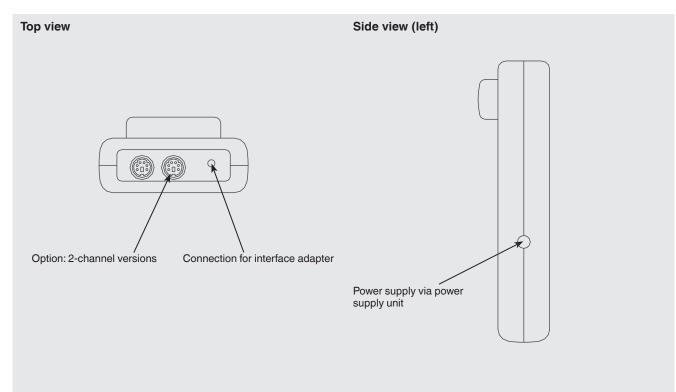
Data sheets showing similar products and accessories: Ex-Hand-Held pressure indicator; model CPH62l0; see data sheet CT 11.02 Hand-Held thermometer; model CTH6200; see data sheet CT 51.01 Test pumps, hydraulic; CPP-Series; see data sheet CT 91.05 Hand test pump, pneumatic; model CPP30; see data sheet CT 91.06 Calibration software; model EasyCal; see data sheet CT 95.01 Page 1 of 8



Dimensions in mm



Electrical connections to the digital instrument

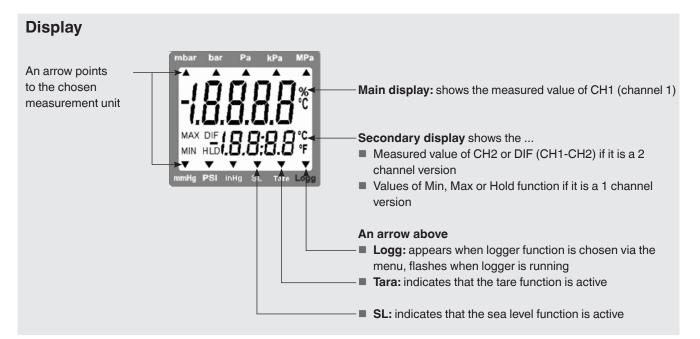


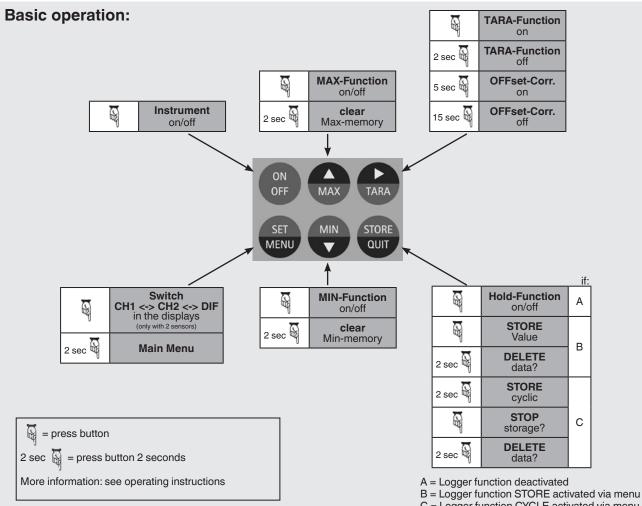
												hai
nput		1 input for CPH6200-S1					2 input	s for CPI	16200-S2			
Pressure range*	bar	0.1	0.16	0.25	0.4	0.6	1.0	1.6	2.5	4.0	6.0	10
Over pressure safety	bar	1	1.5	2	2	4	5	10	10	17	35	35
Burst pressure	bar	2	2	2.4	2.4	4.8	6	12	12	20.5	42	42
Resolution (max.)		depend	ing on pr	ressure ra	ange	_						
Pressure range*	bar	16	25	40	60	100	160	250	400	600	1000	
Over pressure safety	bar	80	50	80	120	200	320	500	800	1200	1500	
Burst pressure	bar	96	250	400	550	800	1000	1200	1700	2400	3000	
Resolution (max.)		depend	ing on pr	ressure ra	ange							
Type of pressure		gauge {absolute 0.25 up to 16 bar and vacuum on request}										
Accuracy (measurement chain)		0.2 % FS +/- 1 digit at reference temperature of 20 °C; optional: 0.1 %										
Display		Large LCD display for display of 2 values and additional information										
Range of display		max19999 up to 19999 digit, depending on sensors used										
Units		can be selected: mbar, bar, Pa, kPa, MPa, mmHg, inHg or psi (dependent on range)										
0			2000		1:							
Specifications		CPH	6200	algita	l insti	umer	11					
Functions via key press		Min-, M	ax-memo	ory, Hold	Tare, Of	set-corre	ection, Lo	ogger (St	art/Stop)			
Functions via Menu		Min-, Max-alarm (acoustic/visual), Sealevel (barom. air pressure), Power-Off-Function,										
		measurement rate: 4/sec ("slow"); > 1000/sec ("fast"); > 1000/sec unfiltered ("peak-detect") [via										
		"peak-detect" and min-/max-memory: pressure peaks of 1,5 msec can be detected]										
Data logger		- discrete value logger: up to 99 recordings incl. time via key press										
		- cyclic logger: automatic recording up to 10000 values incl. time,										
		cycle time: selectable from 1 3600 seconds USB or RS-232 interface via special interface cable										
Interface (serial)												
Analogue output		1	_		ernative i						e)	
Power supply					lternative		0					
Power consumption		cycle tir	ne slow:	< 1.6 mA	., fast: < 7	.0 mA, L	ow-Powe	er-Loggei	r-Fct.: < 0).3 mA		
Permissible												
Working temperature	°C	0 50										
Air humidity	% r.h.			umidity v	vithout m	oisture co	ondensa	tion				
Storage temperature	°C	-20 +										
Housing		Impact-	resistant	ABS, me	embrane	keyboard	l, transpa	arent pan	els			
Weight	g	approx.	160									
CE-conformity												
EMC directive		2004/10	08/EC, El	N 61326	Emission	(Group	1, Class	B) and In	nmunity (portable	equipme	nt)
Specifications		CPT	5200 i	refere	nce p	ressu	ire se	nsor				
-											_	
Pressure connection* Material		G ¹ /2 B; {	nush diaj	pnragm (G1 for 0.	i up to 1.	o dar) oi	various	connectio	on adapte	ers on re	quest}
Wetted parts		Stainles	s steel o	r Flailov®	^o , (> 25 bi	ar with N	الحمع RR					
									ng: NBR ¹) {FKM/F	PM or F	
Internal transmission fluid		flush diaphragm version: stainless steel {Hastelloy C4}; O-Ring: NBR ¹ } {FKM/FPM or EPDM} Synthetic oil, (only for pressure ranges up to 16 bar or flush diaphragm)										
		{Halocarbon oil for oxygen applications}; {Listed by FDA for food industry}										
One year stability		1			e conditio		- 1			,,		
Permissible												
Medium temperature*	°C	-25 +	100									
Ambient temperature	°C	-20 +										
Storage temperature	°C	-40 +										
Protection class				IP 54 (Plu	ug)							
Compensated range	°C	070	,.	. (3,							
Temperature coefficients												
Mean TC of zero signal		0.2 % /	10 K (< 0).4 for pre	essure rai	nges < 2	50 mbar)					
Mean TC of span		0.2 % /										
CE-conformity		0.2 /07										
Pressure equipment directive		97/23/E	С									
EMC directive				N 61326	Emission	(Group	1. Class	B) and In	nmunitv (portable	eauipme	ent)
Connection to CPH6200					/); on req			,			13.010)

O-ring made of FKM/FPM or EPDM for flush diaphragm with integrated cooling element.
In an oxygen version, a flush diaphragm model is not available. In an oxygen version model CPH6200 is only available in gauge pressure ranges ≥ 0.25 bar with media temperatures between -20 ... +60 °C and using stainless steel or Elgiloy® wetted parts.
Items in curved brackets are optional extras for additional price.

Mode of operation for hand-held pressure indicators CPH6200-S1 and CPH6200-S2

1- and 2-channel version for external pressure sensors





C = Logger function CYCLE activated via menu

Complete test and service cases



Basic version I



Equipment freely selectable

Calibration case with model CPH6200 hand-held pressure indicator for pressures consisting of:

- Plastic service case with foamed insert
- Hand-held pressure indcator model CPH6200
- 9 V spare battery
- Various seals
- Sensor cable
- Space for different CPT6200 reference pressure sensors

Available pressure ranges: see specification on page 3.

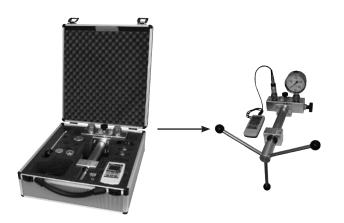
Calibration case for pressure and/or temperatur (can be supplied to requirements) consisting of:

Transport case with foamed insert and available space for max. 2 hand-held pressure indicator/thermometer, different CPT6200 reference pressure sensors, 2 temperature probes, 1 power supply unit, charger and rechargeable battery or battery

Further specifications see data sheet CT 51.01.



Basic version incl. pneumatic pressure generation



Basic version incl. hydraulic pressure generation

Calibration case with model CPH6200 hand-held pressure indicator and model CPP30 hand test pump for pressures -0.95 up to +35 bar consisting of:

- Transport case with model CPH6200 hand-held pressure indicator
- Pneumatic hand test pump model CPP30 -0.95 ... +35 bar
- Various seals
- Sensor cable
- Rechargeable battery and charger
- Space for different CPT6200 reference pressure sensors

Available pressure ranges: see specification on page 3.

Calibration case with model CPH6200 hand-held pressure indicator and model CPP1000-L hand spindle pump for pressures up to 1,000 bar consisting of:

- Transport case with model CPH6200 hand-held pressure indicator
- Hydraulic hand spindle pump model CPP1000-L up to 1,000 bar
- Various seals
- Sensor cable
- Rechargeable battery and charger
- Space for different CPT6200 reference pressure sensors

Available pressure ranges: see specification on page 3.

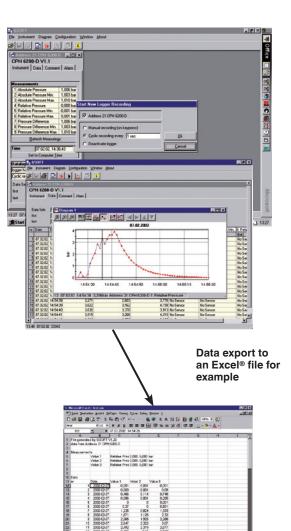
Data logger evaluation software GSoft

The data logger evaluation software GSoft allows stored data from the internal data logger (of a hand-held pressure indicator model CPH6200/CPH62I0 or of a hand-held thermometer model CTH6200) to be displayed as a table or chart on a PC.

- Easy operation due to self-explanatory icon buttons
- Data of a pressure and temperature hand-helds in one diagram possible (2 separate y-Axes)
- Zoom function available
- Remote operation via PC possible
- Data can be exported to Excel[®], etc.
- Language: English/German/French/Spanish

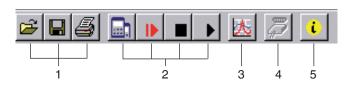
System requirements

- IBM compatible PC (Pentium[™])
- At least 20 MB hard disc capacity available
- CD-ROM drive
- At least 32 MB main memory
- WindowsTM 95, 98, 2000, XP Vista, Windows 7 or NT 4.0 (with Service Pack 3.0) or better
- Mouse
- One unassigned serial interface or one USB-Port (via interface cable)



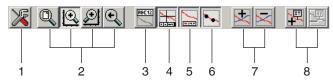
Easy operation with self-explanatory icon buttons

Main toolbar



- 1. File functions: open, save, print
- 2. Logger functions: start communication, start logger, stop, read logger data
- 3. Data display: create chart
- 4. Interface configuration
- 5. Program information

Diagram toolbar



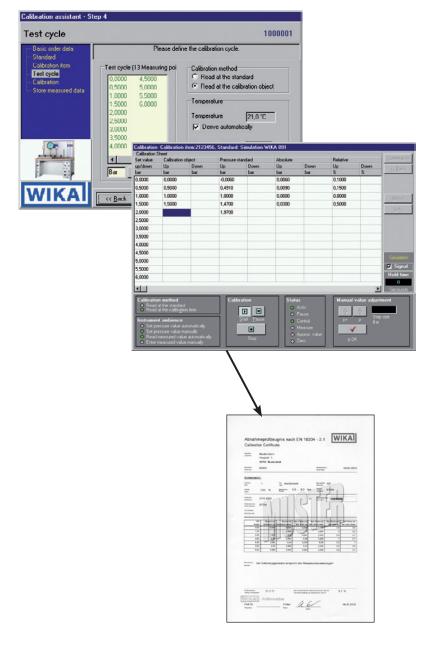
- 1. Settings: grind and colour settings, manual zoom
- 2. Zoom: all, left or right y-Axes (via mouse), back
- 3. Rename chart
- 4. Cursor on/off (Info footer)
- 5. Legend on/off
- 6. (Measurement points) on/off
- 7. Add/erase measuring series
- 8. Comment-labels to a measuring point: add, delete

Calibration software EasyCal

WIKA calibration software has been developed for the calibration of mechanical and electronic pressure gauges according to ISO 9000 (periodical calibration tests).

- Calibration assistant that guides you through the calibration
- User-friendly menu
- Automatic generation of calibration steps according to EN 837-1
- Certificates 3.1 in accordance with EN 10204
- Customised test protocols possible (Access Report Designer)
- Archiving of calibration data as well as instrument administration via access database
- Language: English/German/French/Spanish

Demo-Version available (free of charge)



Scope of supply

- CPH6200 incl. 9 V-battery
- One sensor connection cable per channel
- Calibration certificate 3.1 per DIN EN 10204
- Choice of sensors

Options

- CPH6200-S2: 2-channel version (Differential pressure measurement between 2 connected CPT6200 pressure sensors possible)
- CPH62I0: Intrinsically safe version
- (see data sheet CT 11.02)
- DKD/DAkkS certificated accuracy of 0.2 % or 0.1 %
- Sensors for oxygen applications



Intrinsically safe version CPH62I0-S1

Accessories

Pressure adapters

- Various pressure adapters
- Quick-connect process connection system "Minimess"

Power supply

- Power supply unit
- Rechargeable battery and charger

Pressure generation

- Pneumatic test pumps
- Hydraulic test pumps
- Integral reservoir and pressure hoses

Service cases

- Test and measuring cases
- Various calibration cases incl. test pump

Software

- Data logger evaluation software GSoft for CPH6200/ CTH6200
- Calibration software EasyCal light for the CPH6200

Products and services within our calibration technology program

- DKD/DAkkS calibration services for pressure
- Repair of calibration units of all makes
- Portable pressure measuring devices for test and calibration tasks
- Precision pressure measuring units and pressure controllers
- Primary standards for pressure
- Testing technology system solutions

The specifications given in this document represent the state of engineering at the time of publishing. We reserve the right to make modifications to the specifications and materials.

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- DKD/DAkkS calibration services for temperature
- Dry well temperature calibrators
- Calibration baths and furnaces
- Temperature measuring instruments for test and calibration tasks
- Precision thermometers
- Primary standards for temperature
- Consulting and seminars

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