

## **Model CPG500**



Calibration service companies and service industry Measurement and control laboratories Quality assurance Easy on-site calibration



Digital pressure gauge model CPG500



### Special features

Measuring ranges from -1 ... +16 bar to 0 ... 1,000 bar (-14.5 ... 230 psi to 0 ... 14,500 psi)
Accuracy: 0.25 % (incl. calibration certificate)
Robust case with protective rubber cap
Simple operation using four buttons
Complete service cases incl. pressure generation available

### **Description**

The model CPG500 digital pressure gauge enables the measurement and display of pressure values in a single instrument. The accuracy of digital measurement technology and the simplicity of an analogue gauge are combined in this instrument.

### Accuracy

The CPG500 offers an accuracy of 0.25 % of span in eight pressure measuring ranges. Readings can be displayed in one of five standard units.

### Sampling rate

With a measuring rate of 100 measurements per second, the CPG500 features a very high measuring rate. With this, fast pressure peaks and drops in pressure can be detected. The bar graph display and drag pointer function integrated into the display, as well as retrievable MIN/MAX peak values, enable effective analysis of the measuring point.

#### **Features**

In order to prolong the battery life, the CPG500 features an automatic switch-off function. With the ZERO function, the display value can be zeroed with the simple press of a button. An activatable filter function stabilises pressures which fluctuate strongly, and enables the pressure value to be read easily.

#### Complete test and service cases

For maintenance and service applications, various case systems are available. Service cases with pneumatic or hydraulic pressure generation are available.

#### **Certified accuracy**

For each digital pressure gauge, the accuracy is certified by a factory calibration certificate which accompanies the instrument. On request, a DKD/DAkkS calibration certificate will be provided for this instrument.



# **Model CPG500**

## **Specifications**

Sensor technol	logy				
Measuring range	-1 +16 bar				
Resolution	0.001				
Measuring range	-1 +20 bar	-1 +40 bar	0 60 bar	0 100 bar	
Resolution	0,01				
Measuring range	0 350 bar	0 700 bar	0 1.000 bar		
Resolution	0,1				
Measuring range	-14.5 230 psi				
Resolution	0,001				
Measuring range	-14.5 290 psi	-14.5 580 psi	0 870 psi	0 1.540 psi	
Resolution	0,01				
Measuring range	0 5.000 psi	0 10.000 psi	0 14.500 psi	0 14.500 psi	
Resolution	0,1				
Overload safety	3 times; < 25 bar (< 360 psi) 2 times; > 25 bar ≤ 600 bar (> 360 psi ≤ 8,700 psi) 1.5 times; > 600 bar(> 8,700 psi)				
Pressure connection	G ¼ up to a max. 40 bar (580 psi) G ½ from > 40 bar(> 580 psi)				
Accuracy	0.25 % FS ±1 digit				

Base instrument	
Indicator	
Display	4 ½ digit, bar graph with drag pointer function, illuminated
Digit height	15 mm (0.59 in)
Rotatable case	> 270 °
Dimensions	50 x 34 mm (1.97 x 1.34 in)
Pressure units	bar, psi, MPa, kPa, kg/cm²
Functions	
Measuring rate	10 ms
Memory	MIN/MAX
Autopower	Selectable
Zero function	Zero point adjustment
Reset	Delete MIN/MAX value
Material	
Wetted parts 1)	Stainless steel with sealing NBR
Case	Die-cast zinc with TPE protective rubber cap
Voltage supply	
Power supply	2 x 1.5 V AA batteries
Battery life	approx. 1,500 hrs
Battery status display	Icon in display
Permissible ambient conditions	
Operating temperature	-10 +50 °C (14 122 °F)
Medium temperature	-20 +80 °C (-4 +176 °F)
Storage temperature	-20 +60 °C (-4 +140 °F)
Relative Luftfeuchte	< 85 % r. F. (nicht kondensierend)
Relative humidity	< 85 % r. h. (non-condensing)



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Base instrument			
Case			
Dimensions	79 x 79 x 33 mm (3.11 x 3.11 x 1.30 in)		
Ingress protection	IP67		
Weight	approx. 400 g (0.882 lbs)		

Approvals			
Logo	Description	Country	
CE	EU declaration of conformity EMC directive EN 61326 emission (group 1, class B) and interference immunity (industrial application) Pressure equipment directive RoHS conformity	Europäische Union	
ERE	EAC EMC directive Pressure equipment directive	Eurasian Economic Community	
-	MTSCHS Permission for commissioning	Kazakhstan	
B	KazInMetr Metrology, measurement technology	Kazakhstan	
<b>(</b>	BelGIM Metrology, measurement technology	Belarus	
<b>©</b>	UkrSEPRO Metrology, measurement technology	Ukraine	
<b>@</b>	Uzstandard Metrology, measurement technology	Uzbekistan	

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

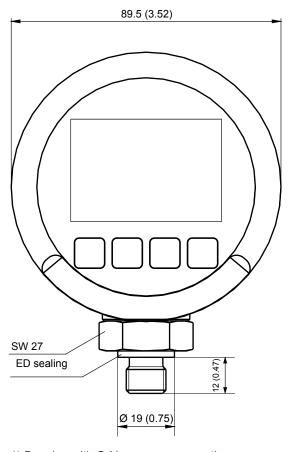
Approvals and certificates, see website



# **Model CPG500**

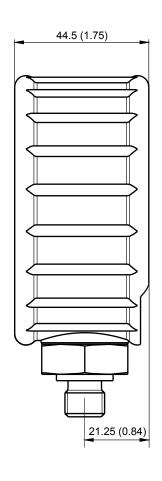
### Dimensions in mm (in)

Front view (with protective rubber cap) 1)



1) Drawing with G  $\frac{1}{4}$  pressure connection

#### Side view (with protective rubber cap) 1)



### Front foil



- 1) Bar graph indicates the current pressure graphically
- (2) Currently set unit
- 3 Display of the measuring range or the MIN/MAX value
- Clear the MIN/MAX values
   Confirmation function in the menu
- 5 Hold down to access the menu

  Zero point adjustment carried out by simply pressing
- 6 Change display value to MIN/MAX or FS (Full Scale)
- 7 With a single press, switch the digital pressure gauge on/off Press for a while in order to switch the backlighting on
- (8) Battery status
- 9 Pressure indication





# **Model CPG500**

### Complete test and service cases



Calibration case with model CPG500 digital pressure gauge and model CPP40 hand test pump, for pressures -0.95  $\dots$  +40 bar (13.8  $\dots$  580 psi), consisting of:

Plastic service case with foam insert

Digital pressure gauge model CPG500

Pneumatic hand test pump model CPP40; -0.95 ... +40 bar (13.8 ... 580 psi)

Available measuring ranges see specifications

Basic version incl. pneumatic pressure generation



Calibration case with model CPG500 digital pressure gauge and model CPP700-H or CPP1000-H hand test pumps, for pressures 0  $\dots$  700 bar (0  $\dots$  10,000 psi) or 0  $\dots$  1,000 bar (0  $\dots$  14,500 psi), consisting of:

Plastic service case with foam insert
Digital pressure gauge model CPG500
Hydraulic hand test pump model CPP700-H or CPP1000-H, 0 ... 700 bar (0 ... 10,000 psi) or 0 ... 1,000 bar (0 ... 14,500 psi)

Available measuring ranges see specifications

Basic version incl. hydraulic pressure generation

### Recommended pressure generation

Pneumatic hand test pump model CPP40

Pressure range: -0.95 ... +40 bar (13.8 ... 580 psi)





# **Model CPG500**

Model CPP700-H or model CPP1000-H hydraulic hand test pumps

Pressure range: 0 ... 700 bar or 0 ... 1,000 bar

(0 ... 10,000 psi or 0 .... 14,500 psi)

Further specifications see data sheet CT 91.07



#### Scope of delivery

- Digital pressure gauge model CPG500
- Operating instructions
- 3.1 calibration certificate per DIN EN 10204
- 2 x AA batteries
- Protective rubber cap for case

#### Option

DKD/DAkkS certified accuracy

#### **Accessories**

Connection adapters

Various pressure adapters

#### Pressure generation

- Pneumatic test pumps
- Hydraulic test pumps

#### **Test case**

Various calibration cases incl. pressure generation

#### Ordering information

Model / Unit / Measuring range / Process connection / Test pump / Transport case / Type of certificate / Further approvals / Additional ordering information