

Portable Low Pressure Calibrator Model CPC 2090

WIKA Data Sheet CT 27.11

Applications

- Mobile calibration of low pressure instruments
- Flexible and accurate measurement of very low gauge pressures or differential pressures
- Generation of very low pressures

Special Features

- Pressure ranges from 2 mbar up to 1,000 mbar gauge pressure and differential pressure
- 0.2 % total uncertainty
- Internal pressure generation (hand-operated)
- Portable with battery operation
- Second pressure range with factor 1/5 turn-down



Low Pressure Calibrator CPC 2090

Description

Areas of application

The instrument has mainly been designed for HVAC, filtering, dedusting, clean room and medical technology applications. It is used for calibrations and accurate measurements.

Functionality

The CPC 2090 is a pressure calibrator incorporating an integrated pressure generator and pressure reference both for battery and mains operation. Pressure build-up is done using a hand pump. For fine adjustment metal bellows are used.

The pressure is measured via a sensitive diaphragm, which is adapted to the pressure range. An inductive system generates a linear signal which changes in proportion to the prevailing pressure.

The internal pressure sensor is exclusively suitable for dry, clean and non-aggressive gases.

By pressing a specific button the measurement range can be changed by factor 1/5 and via another button the response time of the instrument can be set.

On request the instrument can be supplied with a factory, DKD or other equivalent calibration certificate.

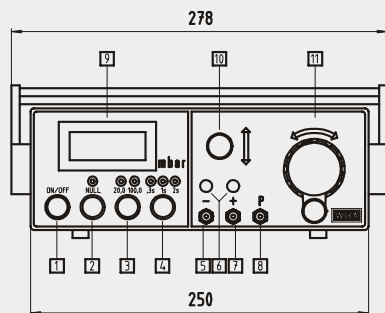
Specifications

CPC 2090

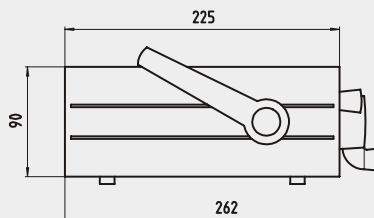
Pressure range (change-over of measuring ranges 5:1)	mbar	10/2	100/20	1000/200
Over pressure safety	mbar	100	1000	2000
Accuracy	% of span	≤0.2 (limit point calibration) ± 1 digit		
Power supply	DC	9 V Battery		
	AC	230 V, plug power pack (optional)		
Display				
- Measurement representation		LCD 3 1/2 -digit {LCD 4 1/2-digit}, height of digits 12.5 mm		
- Display pick-up rate	sec	Adjustable between 0.3 / 1 / 2		
Analogue output signal	DC	{0 ... 1 V}		
Pressure generation				
- Hand pump		For rough adjustment of the test pressure		
- Metal bellows		Adjustable volume for fine adjustment of the test pressure		
Pressure connection	mm	Two hose connections dia. 6.6 x 11 for hoses with inside dia. 5-6		
Weight	kg	Approx. 2		
Dimensions	mm	See drawings		

{ } Items in curved brackets are optional extras for an additional price.

Dimensions in mm



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|----------------------------------|---------------------------------|--------------------|
| 1 On-Off switch | 5 “-“ Pressure connection | 9 LCD Display |
| 2 Tare key | 6 Ventilation valves | 10 Hand pump |
| 3 Change-over of measuring range | 7 “+“ Pressure connection | 11 Fine adjustment |
| 4 Time-constant key | 8 Output of pressure generation | |

Products and Services within our Testing and Calibration Technology Program

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| <ul style="list-style-type: none"> ■ DKD calibration services for pressure ■ Repair of calibration units of all makes ■ Portable pressure measuring devices for testing and calibration tasks ■ Precision pressure measuring units and pressure controllers ■ Primary standards for pressure ■ Testing technology system solutions | <ul style="list-style-type: none"> ■ DKD calibration services for temperature ■ Temperature dry well calibrators ■ Calibration baths and furnaces ■ Temperature measuring instruments for testing and calibrating tasks ■ Precision thermometers ■ Primary standards for temperature ■ Consulting and training |
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Specifications and dimensions given in this leaflet represent the state of engineering at the time of printing. Modifications may take place and materials specified may be replaced by others without prior notice.



WIKAL Alexander Wiegand GmbH & Co. KG
 Alexander-Wiegand-Straße 30
 63911 Klingenberg / Germany
 Phone (+49) 93 72/132-9986
 Fax (+49) 93 72/132-217
 E-Mail testequip@wika.de
 www.wika.de