

CaliBox 200

PORTABLE DIFFERENTIAL PRESSURE CALIBRATOR AND REFERENCE MEASUREMENT INSTRUMENT

Product information - compact

The versatile differential pressure calibrator CaliBox 200 has been designed especially for laboratories as well as for mobile use inside clean rooms. Thanks to its rechargeable battery the device can be operated up to 48 hours independent from any external power source.

At the push of a button the calibrator becomes a veritable reference measurement device, if required also with accredited certificate. The integrated sensor operates with high accuracy and long term stability. This is achieved thanks to the combination of a high quality sensor element with a fully automated zeroing system, which makes the CaliBox 200 non just accurate but also maintenance free.

But the CaliBox 200 offers more! Its steady and stable pressure generation allows a calibration of static membrane and dynamic mass flow sensors. Hence this all-rounder can be used for the most common differential pressure measurement technologies.

The instrument is delivered inside a robust carrying case including all accessories such as hoses, tools, PC software etc. The differential pressure is set by a precision control button and is lead via a hose to the test specimen. During this process the pressure is always kept stable at the same level with no need to always build up the pressure. This permits to calibrate efficiently several specimens in series and therefore saves precious time.

Other strong points are the mechanical robustness and burst strength. The strong carrying case protects the inner life of the CaliBox 200 and an integrated valve system protects the sensor from overload pressure. In addition the CaliBox 200 provides a scalable and adjustable analogue output, which can be used to connect external devices such as data loggers, PC, laptops etc.

This cost efficient and universal solution suits perfectly for every calibration professional, who wants to calibrate on site in an accurate and efficient manner.

Advantages

- 2 in one - calibrator & reference instrument
- High versatility - for membrane & mass flow sensors
- High performance battery with up to 48 hours of operation time
- Robust carrying case
- High quality piezo-resistive sensor with automatic zeroing
- Intuitive operation
- Scalable and adjustable analogue output
- Integrated particle filter
- SWISS-MADE quality

Applications

Calibration in laboratories as well as in clean rooms

- Pharmaceutical-, Food-, Semicon-industry etc.
- Calibration laboratories
- Mobile calibration services



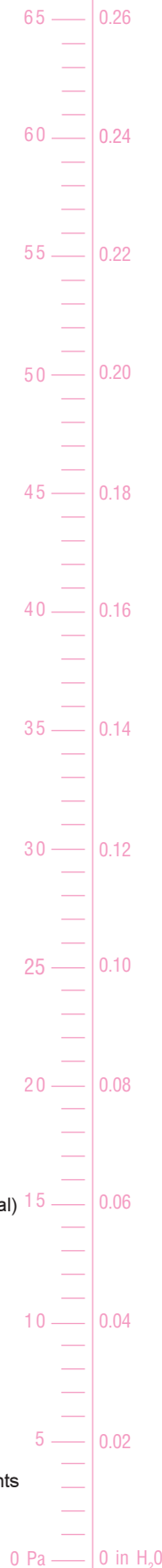
Mobile calibrator and reference measurement instrument - united in one device !

BATTERY POWER FOR UP TO 48 HOURS OF OPERATION TIME!

CaliBox 200 :	P/N 260 0538
Working range :	0...200 Pa (uni-directional)
Battery power supply :	battery 25.6V/10 Ah
External battery charger :	110...230 VAC

Accessories (included in scope of delivery)

- External „LiFe“ charger with 230 V plug
- Diverse hoses in various diameters
- Hose fixation tools
- Factory calibration certificate with 11 calibration points
- PascalTool WIN configuration software
- RS-232 configuration cable



Technical data

Type	CaliBox 200
Part No.	260 0538
Differential pressure working/measuring range	0 ... 200 Pa static and dynamic
Max. display resolution	0.01 Pa
Measurement accuracy at 20°C	typical <= 0.15 Pa respectively 0.08% FS (Full Scale)
Temperature effect	influence temperature constant: typical <= 0.03 Pa/°C resp. 0.015% FS/°C influence temperature change 10°C/h: typical <=0.6 Pa resp. 0.3% FS
Offset drift	typical <= 0.15 Pa / year (automatic zero-point adjustment)
Hysteresis	typical <= 0.15 Pa
Reference device sensor element	piezo-resistive membrane differential pressure sensor
Max. permissible overpressure	-100...500 kPa
Operating temperature	5...50°C
Environmental media	non condensing, non corrosive fresh air
Power supply	Chargeable battery 25.6V/10 Ah LiFe PO4 with BMS
Charging time	< 3 hours
Operation time at full battery load	> 24...48 hours
Analogue output	0/2 ... 10V (load >= 10 kOhm)
Accuracy of analogue output	typical 0.05% of full scale (FS)
Digital interface	RS 232
Carrying case dimensions	360 x 304 x 194 mm
Protection class open	IP 30
Protection class closed	IP 54
Total weight	7.3 kg
Storage temperature range	-10 ... + 60°C non condensing



Spare parts

Nozzle for hose inner diameter red. 8/5mm **Part No. 111 6332**

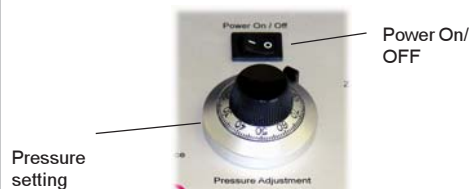
Hose connections

For use as dP reference measurement device (indicator) or as calibrator (dynamic / static) :



Operation- and indication elements

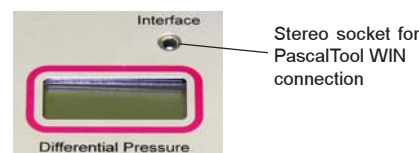
Main power switch / Pressure controller :



Function buttons calibrator / reference device :



Pressure display / RS-232 interface :



Technical changes without notice!