



# PRESSURE

## Calibration Service for Pressure

E+E Elektronik operates a government-accredited calibration lab (OEKD) in accordance with DIN EN ISO/IEC 17025.

Pressure meters for gaseous media can be calibrated in the E+E calibration lab.

The calibration is performed in accordance with the DKD-R 6-1 guideline, whereby different sequences (A, B or C) are used, depending on the measurement accuracy of the sensor to be calibrated.



Calibration sequence	Measurement accuracy in % of the measuring span	Measuring points	Measuring series
A	<0.1	9	4
B	0.1...0.6	9	3
C	>0.6	5	2

### Calibration object

- Absolute pressure meter
- Relative pressure meter
- Differential pressure meter
- Manometer
- Barometer



### Calibration range

Calibration standard	Calibration object	Measurement method	Measurement range
OEKD Lab	Absolute pressure sensor	Calibration in accordance with DKD-R-6-1	(0.1 to 101) bar (0.01 to 10.1) Mpa
OEKD Lab	Relative pressure sensor	Calibration in accordance with DKD-R-6-1	(-0.9 to 100) bar (-0.09 to 10) Mpa
OEKD Lab	Differential pressure sensor	Calibration in accordance with DKD-R-6-1	(0 to 9) bar (0 to 0.9) Mpa

### OEKD Calibration Standard

#### OEKD ACCREDITED CALIBRATION - Accreditation Austria

The essential characteristic of an accredited calibration certificate is the traceability of measurement results and thus their international comparability. The essential factor is mainly the indication of measurement uncertainties, which is determined from the measurement process.

According to international agreements (ILAC), only calibration labs accredited in accordance with EN ISO/IEC 17025 can perform traceable calibrations, thus ensuring full international comparability of the calibration results.



#### Calibration procedure

A pressure calibrator is used for the calibration of absolute and relative pressure meters. The generator consists of a pressure regulating unit, as well as two quartz relative pressure sensors for reference, and a quartz barometer. The pressure drop of a gas stream is measured at a needle valve for the calibration of differential pressures.

## Order code

Calibration standard		OEKD-P
Type	Absolute pressure 0.1...101 bar	A
	Relative pressure -0.9...100 bar	R
	Differential pressure 0...9 bar	D
Calibration sequence (in accordance with DKD-R 6-1)	Sequence A (9 points and 4 measuring series)	A
	Sequence B (9 points and 3 measuring series)	B
	Sequence C (5 points and 2 measuring series)	C

## Order example

### OEKD-PRA

#### Declaration:

- [P] - accredited pressure calibration of a
- [R] - relative pressure meter
- [A] - according to sequence A with 9 measuring points and 4 measuring series