

Description

At halstrup-walcher you can find the KAL100/200 Series 3 pressure calibration which offer outstanding value for money and can be used either for stationary (e.g. in a customer's own laboratory) or mobile applications. These devices combine integrated pressure generation for setting the calibration point and high-precision pressure measurement.

Properties / Benefits

- High precision measurement and calibration device
- High flexible while it runs on mains supply or battery
- Automatic zero-point correction provides high zero-point stability
- Internal pump quickly and accurately generates negative or positive differential pressures of -80 kPa up to 100 kPa
- Unit conversion (e.g. mmHg, mmH₂O, psi, etc.)
- Ensuring the calibration interval by displaying the last calibration
- Switching power supply for automatic adjustment of the voltage supply between 85 VAC and 264 VAC for the world-wide use

Applications of the pressure calibration KAL

The KAL 100/200 enables you to calibrate pressure gauges yourself. However, if you wish to use the calibration device as a reference, it should be calibrated by DKD-directive 6-1.

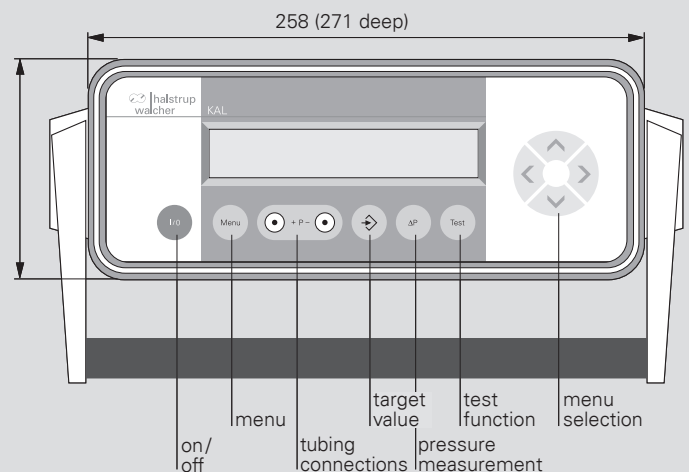
The KAL is suitable for calibrating:

- differential pressure gauges in cleanrooms (pharma, semi-conductors etc.)
- blood pressure monitoring equipment in hospitals etc.
- differential pressures in air-conditioning systems




KAL 100/200 Series 3

Control accuracy of the Pressure generation	≤ 0.05 % FS
Overload capacity	200x measurement range, max. 600 kPa
Temperature coefficient zero point	± 0 % (cyclical zero-point correction)
Calibration temperature	22 °C ± 4 K
Medium	air, all non-aggressive gases
Measurement input	0.. 10 V, 0.. 20 mA Measurement accuracy: 0.2 % v. E.
Display	Alphanumeric display with 2x20 characters, backlighting
Rated temperature range	10.. 40 °C
Storage temperature	- 10.. 70 °C
Weight	approx. 4.6 kg
Pressure ports	Ø 6 mm, for tubing NW 5 mm
Certificates	CE/UKCA



All dimensions in mm.

	KAL 100	KAL 200
		
Pressure generation	automatic	
Applications	mobile or stationary (laboratory)	
Measurement ranges	0..100 Pa/0..200 Pa/0..500 Pa/0..1 kPa/0..2 kPa/0..5 kPa/0..10 kPa/0..20 kPa/0..50 kPa/0..100 kPa/ ± 100 Pa/ ± 200 Pa/ ± 500 Pa/ ± 1 kPa/ ± 2 kPa/ ± 5 kPa/ ± 10 kPa/ ± 20 kPa/ ± 50 kPa/-80..100 kPa	
Measurement accuracy ¹⁾	$\pm 0.2\%$ FS Measurement ranges $>0..200$ Pa/ ± 200 Pa $\pm 0.5\%$ FS Measurement ranges $\leq 0..200$ Pa/ ± 200 Pa	$\pm 0.1\%$ FS Measurement ranges $>0..200$ Pa/ ± 200 Pa $\pm 0.2\%$ FS Measurement ranges $0..200$ Pa/ ± 200 Pa $\pm 0.3\%$ FS Measurement ranges $0..100$ Pa/ ± 100 Pa
Temperature coefficient span (10..40°C)	max. 0.04 % FS/K	max. 0.03 % FS/K
USB-Interface and analog measurement input for test object	optional	✓
Battery life (rechargeable)	ca. 8 h	ca. 8 h
Factory calibration	✓	✓
power supply test object (24 VDC / 100 mA)	optional	✓

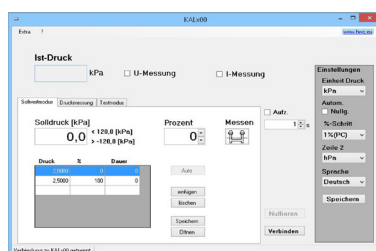
¹⁾ measurement accuracy for the reference 0.3 Pa, for measurement ranges $\leq \pm 1,5$ kPa

APPLICATION SOFTWARE FOR THE KAL 100/200

Control your calibration process from the PC. The calibration devices KAL 100/200 with USB connection can be operated with our user software. You can choose between the following operating modes: setpoint mode, pressure measurement and test mode.

You can define calibration points and approach them automatically. Save a calibration sequence once defined and use it again for another or the same pressure transmitter.

Use the software to conveniently set parameters that you would otherwise set via the operating menu of the display (unit, language (English/French/German/Italian/ Spanish), zeroing,...).



You will find the free user software under:

www.halstrup-walcher.de/en/downloads

Accessories



Carrying bag KAL 100/200
Order no. 9220.0002



Transport case KAL 100/200
supplied as standard

Recalibration service

ISO factory calibration certificate
Calibration certificate with
DKD-directive 6-1

Order no.
9601.0136
9601.0288

Your Product request

Please use the boxes below to select the respective specifications for your product.

Model	A	Measurement ranges	B
KAL 100	100	0..100 Pa	0
KAL 200	200	0..200 Pa	02
		0..500 Pa	05
		0..1 kPa	1
		0..2 kPa	2
		0..5 kPa	5
		0..10 kPa	10
		0..20 kPa	20
		0..50 kPa	50
		0..100 kPa	100
		± 100 Pa	0A
		± 200 Pa	02A
		± 500 Pa	05A
		± 1 kPa	1A
		± 2 kPa	2A
		± 5 kPa	5A
		± 10 kPa	10A
		± 20 kPa	20A
		± 50 kPa	50A
		-80..100 kPa	100A

Power supply	C
85 .. 264 VAC, (47 .. 63 Hz)	0
85 .. 264 VAC (47 .. 63 Hz) and Lithium-ion Accumulator	A

Data interface	D
none	0
USB + measurement input for test object ²⁾	1

²⁾ Standard for KAL 200

Calibration certificate	E
Factory calibration	I
Calibration according to DKD-R 6-1 ³⁾	D

³⁾ Calibration according to DKD-R 6-1 only for pressure indication

Order code	A	B	C	D	E
KAL	-	-	-	-	-