# halstrup walcher

Margin of error	0.5 % of max. value
Overload capacity	10 x for measurement ranges ≤ 10 kPa 2 x for measurement ranges > 10 kPa 1.2 x in the 200 kPa measurement range
Calculation of air speed	$v = 1.291*\sqrt{\Delta p}$ with $v$ in m/s and $\Delta p =$ differential pressure at the pitot tube in Pa (pitot factor and density adjustable) with telescoping pitot tube, see p. 29
Zero-point correction	performed electronically by pressing zero-point key
Medium	air, all non-aggressive gases
Analog output	$\begin{array}{l} 02 \ V \ (R_{L} \geq 2 \ k\Omega) \\ 012 \ V \ (R_{L} \geq 2 \ k\Omega) \ \text{for negative} \\ \text{and positive measurement ranges} \end{array}$
Display	3½ digit LCD, character height = 10 mm
Time constants	110 s
Operating temperature	050°C
Storage temperature	-1070°C
Power supply	9 V battery (service life approx. 100 h) (display reads "low bat" when power falls below a certain mini- mum level) Switches off automatically after approx. 20 min.
Weight	approx. 0.4 kg
Pressure ports	for tubing NW 46 mm
Certificates	CE

Measurement ran	ge		А
± 200 Pa	(±2 mbar)	1.518 m/s	0
±2 kPa	(± 20 mbar)	558 m/s	1
±20 kPa	(± 200 mbar)	15180 m/s	10
± 200 kPa	(±2000 mbar)		100

Order code	A
EMA 200 -	

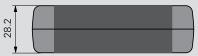
# **EMA 200**



### **Features**

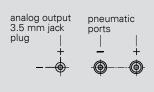
- High-end pressure gauge for differential pressure and flow measurements
- Adjustable pitot factor and density
- Zero-point correction at the push of a button
- Min./max. value memory
- Temperature measurement







#### Connection diagram



### **OVERVIEW**

	EMA 200	EMA 84
Details on	p. 30	p. 31
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Features	Portable digital pressure gauge with min./max. value memory and free selection of units, also suitable for flow measurements	Rugged, portable digital pressure gauge
Measurement ranges	±200 Pa (±2 mbar) ±2 kPa (±20 mbar) ±20 kPa (±200 mbar) ±200 kPa (±2000 mbar)	0100 Pa (01 mbar) 01 kPa (010 mbar) 010 kPa (0100 mbar) 0100 kPa (01000 mbar)
Margin of error	0.5 % of max. value	0.2% of max. value, min. 0.3 Pa for measurement ranges 150 kPa or 0.5% of max. value for measurement ranges 1100 kPa or 1% of max. value

The EMA 200 is available with 4 measurement ranges. The units (Pa, kPa) are shown in the display or printed on the keyboard film (mbar,  $mmH_2O$ ,  $inH_2O$ ).

The EMA 84 is also available with 4 measurement ranges. The following units may be selected: Pa/mbar and mbar/kPa. The measurement range selected (incl. the units) is printed on the device.

## **ACCESSORIES**

Shoulder bag EMA 200 Carrying bag EMA 84 Shoulder bag EMA 84 (with LCD viewing window) DAkkS calibration certificate, German (p. 41) DAkkS calibration certificate, English (p. 41) ISO factory calibration certificate Connecting components (tubing etc.) Telescoping pitot tube (EMA 200) for flow measurements

#### 9074.0001 1 9063.0001 2 9064.0001 3 9601.0003 9601.0004

Order no.

9601.0003 9601.0004 9601.0002 see p. 15 9061.0193 4





Maximum full working length: 980 mm Minimum working length: 250 mm Transport length: approx. 200 mm



# **APPLICATION**

After start-up of an air-conditioning system and cleanroom, or during maintenance or validation work, it is necessary to monitor a large number of pressure values. It is therefore essential to measure and record the following values accurately:

- · ventilator pressure
- · pressure drop at power units and filters
- · overpressure in the cleanroom
- flow in the air duct and rooms

The EMA range of handheld pressure gauges are simple to operate, have a rugged design and are optimised for long-term use in building services engineering and industrial applications.

