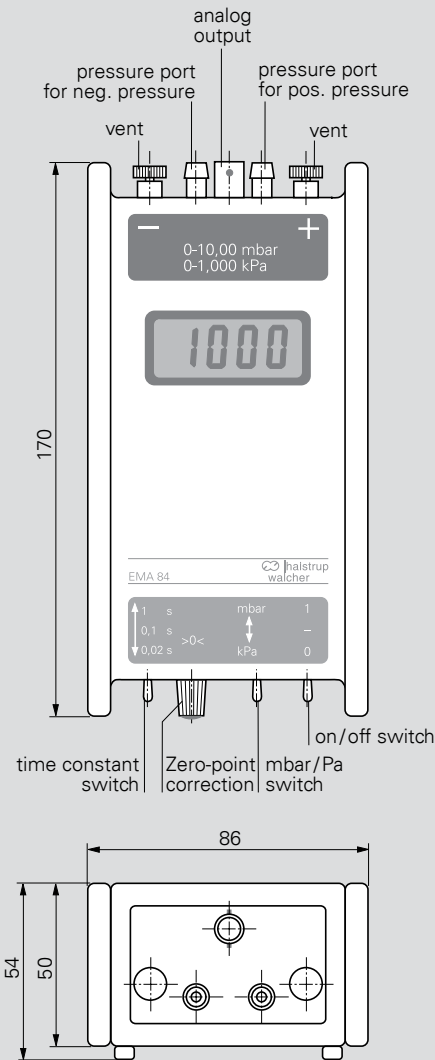




Features

- Very robust digital pressure gauge
- Ideal for service technicians, easy-to-read display
- High level of accuracy
- Manual zero-point correction
- With optional analog output for writer or power/voltage logger



Margin of error (0.3 Pa margin of error for the reference)	$\pm 0.2\%$ of max. value for measurement ranges 1 .. 50 kPa or $\pm 0.5\%$ of max. value for measurement ranges 1 .. 100 kPa or $\pm 1\%$ of max. value
Overload capacity	10 x for measurement ranges $\leq 10$ kPa 2 x for measurement ranges $> 10$ kPa
Zero-point correction	via potentiometer on front face
Medium	air, all non-aggressive gases
Analog output	0..1 V ( $R_L \geq 2$ k $\Omega$ ) BNC connector
Display	3 ½ digit LCD, character height = 13 mm
Time constants	toggles between 0.02 s; 0.2 s; 1 s
Operating temperature	10..60 °C
Storage temperature	-10..70 °C
Operating position	preferably horizontal
Power supply	9 V battery
Weight	approx. 0.8 kg
Pressure ports	for tubing NW 6 mm
Certificates	CE

Measurement range		A
0.. 100 Pa	(0.. 1 mbar)	0
0.. 1 kPa	(0.. 10 mbar)	1
0.. 10 kPa	(0.. 100 mbar)	10
0.. 100 kPa	(0.. 1 000 mbar)	100

Margin of error	B
$\pm 0.2\%$ of max. value for measurement ranges 1..50 kPa	2
$\pm 0.5\%$ of max. value for measurement ranges 1..100 kPa	5
$\pm 1\%$ of max. value	1

Analog output	C
none	0
0..1 V (optional)	1

Order code	A	B	C
EMA 84	-	-	-

# DIGITAL PRESSURE GAUGES

Product	EMA 200	EMA 84
Details on	p. 28	p. 29
		
<b>Features</b>	Portable digital pressure gauge with min./max. value memory and free selection of units, also suitable for flow measurements	Rugged, portable digital pressure gauge
<b>Measurement ranges</b>	± 200 Pa (± 2 mbar) ± 2 kPa (± 20 mbar) ± 20 kPa (± 200 mbar) ± 200 kPa (± 2 000 mbar)	0.. 100 Pa (0.. 1 mbar) 0.. 1 kPa (0.. 10 mbar) 0.. 10 kPa (0.. 100 mbar) 0.. 100 kPa (0.. 1 000 mbar)
<b>Margin of error</b> (0.3 Pa margin of error for the reference)	± 0.5 % of max. value	± 0.2 % of max. value for measurement ranges 1.. 50 kPa or ± 0.5 % of max. value for measurement ranges 1.. 100 kPa or ± 1 % of max. value

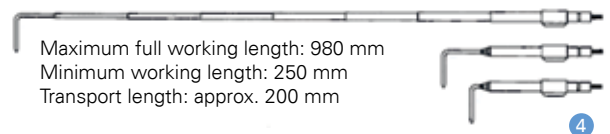
The EMA 200 can be ordered in 4 different measurement ranges. The units can be changed as required: Pa and kPa are shown in the display; mbar, mmH<sub>2</sub>O, and in H<sub>2</sub>O are printed on the housing film and marked with an arrow. The temperature or rate of flow is shown in a second line on the display.

The EMA 84 can also be ordered with 4 different measurement ranges. The following units may be selected: Pa/mbar and mbar/kPa.

## ACCESSORIES

Shoulder bag EMA 200  
Carrying bag EMA 84  
Shoulder bag EMA 84 (with LCD viewing window)  
DAkkS calibration certificate, German (p. 42)  
DAkkS calibration certificate, English (p. 42)  
ISO factory calibration certificate  
Connecting components (tubing etc.)  
Telescoping pitot tube for flow measurements (EMA 200)

**Order no.**  
9074.0001 ①  
9063.0001 ②  
9064.0001 ③  
9601.0003  
9601.0004  
9601.0002  
see p. 11  
9061.0193 ④



## USE OF HANDHELD GAUGES

After the start-up of an air-conditioning system or 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 hand-held pressure gauges has been optimised for long-term use in building services engineering and industrial applications. They are rugged and simple to operate.

