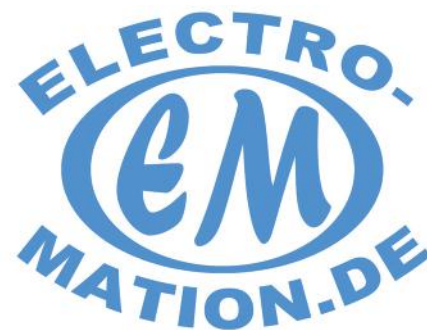
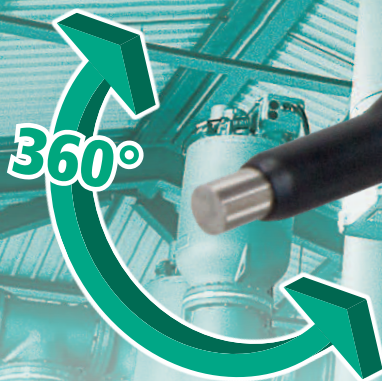


Simply a question of
better measurement



HLK 100

**High-Quality Flow and Temperature
Sensor for Air and Gases**



Product Features

- Easy-to-Install, without alignment to flow direction, variable immersion depth, extendable
- Integrated evaluation electronics in the sensor tube
- Operating status display via LED
- Maintenance-Free, robust and long-term stable
- Easy-to-Clean (anti-dust-design)

Applications

- Ventilation, exhaust and air-conditioning systems
- Control of supply air and exhaust air in fume chambers
- Filter monitoring

HLK 100

Technical Data

Measuring parameters	standard velocity w_N of air, based on standard conditions 20 °C and 1013.25 hPa medium temperature T_M
Medium to be measured	air and gases
Measuring range w_N Measuring accuracy ¹⁾ w_N	0 ... 2.5 m/s $\pm$ (4 % of meas. value + 0.05 m/s) 0 ... 10 m/s $\pm$ (4 % of meas. value + 0.2 m/s) 0 ... 20 m/s $\pm$ (4 % of meas. value + 0.4 m/s)
Lower detection limit w_N	0.2 m/s
Measuring range T_M	0 ... +60 °C
Measuring accuracy T_M ($w_N > 2$ m/s)	± 1 K (10 ... 30 °C); ± 2 K in remaining interval
Response time (t_{90}) w_N	approx. 10 s (jump from 0 to 5 m/s)
Operating temperature	-10 ... +60 °C
Humidity	measuring mode: non-condensing (<95 % RH)
Operating pressure	atmospheric (700 ... 1,300 hPa)
Operating voltage U_B	24 V DC $\pm$ 20 %
Current consumption	typ. < 35 mA (max. 80 mA)
Analog outputs	0 ... 10 V
Burden	$R_L \geq 10$ k Ω ; $C_L \leq 1$ nF
Electrical connection	non-detachable connecting cable, pigtail, length 2 m, 4-pin 0.25 mm ² , PVC
Cable length (recommended)	15 m max.
Type of protection	IP 40
Protection class	III (SELV)
Min. immersion depth (MID)	35 mm
Dimensions	$\varnothing$ 12 mm, probe length 144 mm
Material	PC, ABS, Nickel-plated Brass
Weight	50 g (probe)
Delivery content	probe, mounting clamp, extension tube, manual

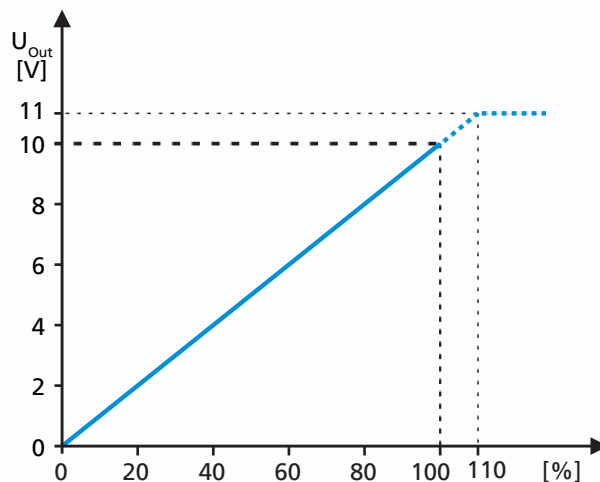
¹⁾ under conditions of the reference

Extension Tube Art.-Nr. 551 300

Extending length 85 mm, set of 5 pcs.



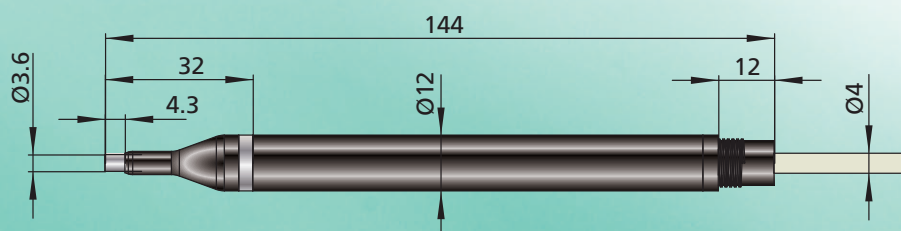
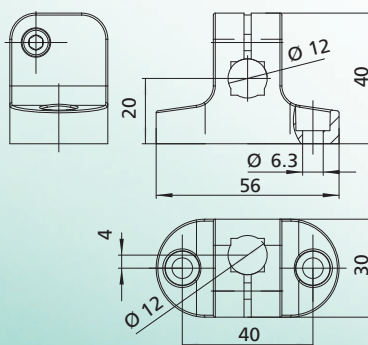
Representation of the Analog Signal (w_N , T_M)



Order Information

HLK 100 – 2.5 m/s	548 000-13
HLK 100 – 10 m/s	548 000-11
HLK 100 – 20 m/s	548 000-12
Extension Tube (set of 5 pcs.)	551 300

Mounting Clamp



HLK100

Order information Strömungssensor HLK 100

	Description	Article Number	
Basic sensor	Flow Sensor HLK w_N and $T_{M'}$, 0 ... 10 V, cable 2 m each including 1 x mounting bracket and 1 x extension tube	548 000 - 1	Y
	Options		
Measuring range	Measuring range 0 ... 2.5 m/s		3
	Measuring range 0 ... 10 m/s		1
	Measuring range 0 ... 20 m/s		2
	Description	Article Number	
Accessories	Power supply unit 24 V DC / 1 A output, supply voltage 115 / 230 V AC	535 282	
	Extension tubes (5 pcs)	551 300	
	Assembly kit for pipe assembly suitable for EMD 10.010 / EMD 10.015, including pipe clamps and collar for adjustment to the pipe diameter	531 394	
	LED display EMD 10.010 in wall housing to show volume low and low velocity, 85 ... 250 V AC and sensor power supply	527 320	
	LED display EMD 10.010, similar to 527 320 but with 24 V DC volt-age supply	528 240	
	LED display EMD 10.015, similar to 527 320 but with an additional sum function and a second measuring input	527 330	
	LED display EMD 10.015, similar to 527 330 but with 24 V DC volt-age supply	528 250	