Be sure. **testo**

Average value probe

Order nr.: 803712 1011

Average value probes are used in ventilation ducts where they measure the temperature in gaseous media. Our average value temperature probe can be used in the measuring range from -30 to +80 °C. It has a high-quality copper probe rod, which measures the average temperature over the entire cross-section. In the scope of delivery you will find a suitable plastic mounting flange and, depending on the length, mounting clamps. Please select a suitable measuring element and the required rod length and send us the order code.
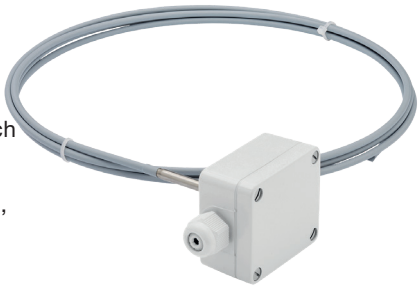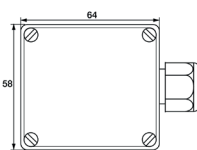
General Information	
Measuring range	-30 °C to +80 °C depending on the rod
Perm. range °C Housing	-30 °C to +90 °C
Accuracy	depending on sensor type
Response time	t63 / t99: information is available on request

Supply and output	
Max. measurement current	max. 1 mA
Supply voltage	approx. 5 V depending on measurement current
Measurement signal	passive (resistance value)

Ambient conditions	
Protection class	IP65 according DIN 60529
Humidity and moisture condensation resistance	according to application-specific qualification

Certificates and Standards	
Standards	DIN EN 61326-1:2013 | DIN EN IEC 63000:2019-05
Directive	RoHS 2011/65/EU | 2014/30/EU
Certificates	Certificate of suitability (on request)

Customizable options
A - Measuring element
F - Length rod

| A - Measuring element				
Code	Sensor	Accuracy / Tolerance resistance	min[2]	max[2]
A012	Pt100	Cl. B dT = ±(0,30 °C + 0,005|t|)[1]	-50 °C	+400 °C
A032	Pt1000	Cl. B dT = ±(0,30 °C + 0,005|t|)[1]	-50 °C	+400 °C
A210	Ni1000	-60 °C to 0 °C: dT = ±(0,4 °C + 0,028 · T) | 0 °C to +150 °C: dT = ±(0,4 °C + 0,007 · T)	-60 °C	+150 °C
A215	Ni1000TK5000	-50 °C to 0 °C: dT = ±(0,4 °C + 0,028 · T) | 0 °C to +250 °C: dT = ±(0,4 °C + 0,007 · T)	-50 °C	+250 °C

[1]according to IEC 751 / EN 60751 | [2] Perm. range °C | A210, A215 only on request | Please note that the measuring range depends on the measuring element and the housing. | Detailed information and the characteristics can be found in our download area. | We offer these probes only as two-wire versions.

Housing	
Material	Polyamide
Dimension (L/W/H) (mm)	64 x 58 x 35
Color	white similar RAL 9010
Cable entry	with strain relief
Clamping range (mm)	5 to 9
Electrical connection	Screw terminals max. 1,5 mm²

64

58

F - Length rod			
Material	Copper (oxidation protective coating)		
Color	Grey		
Length / Ø Neck tube (mm)	60 / 6		
Material neck tube	Stainless steel 1.4571 | 316TI		
Code	F1	F2	F3
Length (m)	0,4	3	6
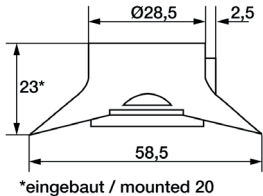
Other rod lengths on request

Would you like to **contact** us? Please click **here**...
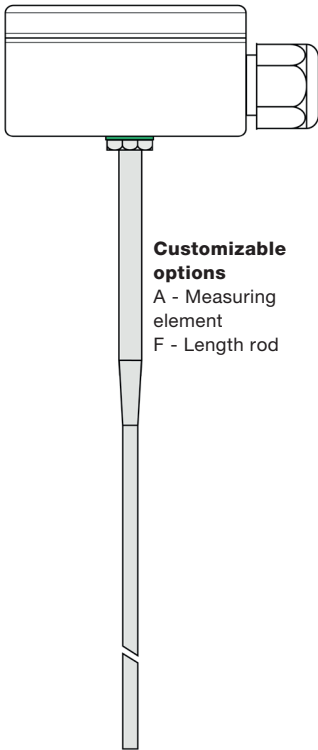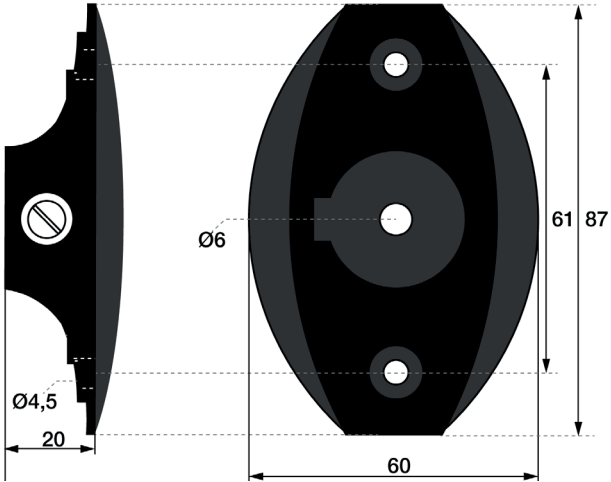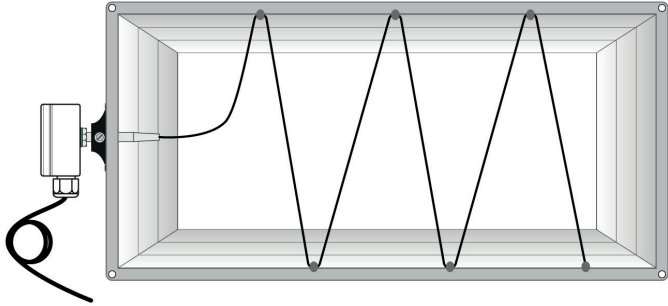
Plastic flange

Included in delivery

Material	Plastic
Fixing	two holes Ø 4.5 mm
Hole (mm)	6
Article number flange	809500 4060

You will find further mounting flanges in our accessories.

Ø28,5 2,5
23*
58,5
*eingebaut / mounted 20

Ø6
Ø4,5
20
61 87
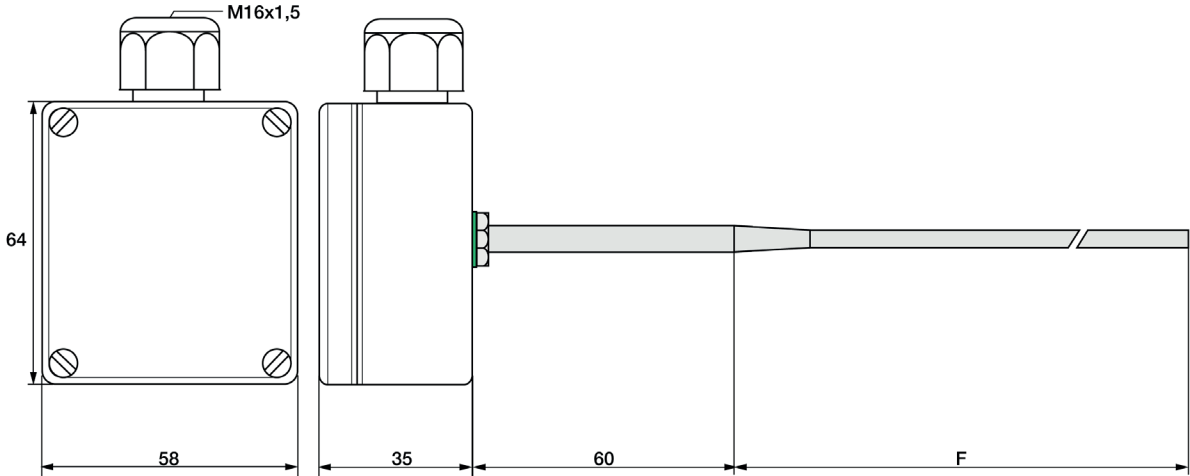60

Delivery and Assembly

Delivery and Packaging	Probe, Mounting flange, Mounting clips (for 3 and 6m), seperatly packaged in PE bag
Assembly instructions	Installation by means of enclosed mounting flange.

Your order code

Order nr.	Measuring element	Length rod
803712 1011	A_____	F_____

Important assembly advices

Average value temperature probes measure the temperature over the entire length of their rod. Please place the probe in the air duct at equal distances and keep a bending radius of at least 30°. Fasten the rod with mounting clamps (included in delivery). A suitable plastic flange is included for mounting in the duct. Further mounting flanges made of aluminum or stainless steel as well as compression fittings can be found on our website. Please lay the cable with reserve loop (5). This allows you to extend the probe without disconnecting the electrical connection.

Technical drawing

Customizable options: A - Measuring element | F - Length rod   All dimensions in mm
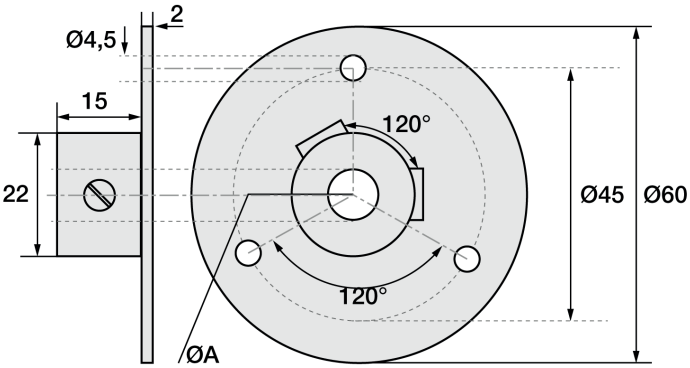
M16x1,5
64
58   35   60   F

RL / KS / 28.10.2021

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Matching accessories: Mounting flange

Steel flange

Article no.	**809500 1XXX**
Material	Stainless Steel
Fixing	3 x Ø 4,5 mm drill holes

Now please select the size of the hole and append the last digits to your order number.

A - Hole (mm)	Code
6	060
9	090
10	100
15	150

Your order code 809500 1_ _ _

Aluminium flange

Article no.	**809500 2XXX**
Material	Aluminium
Fixing	2 x Ø 4,5 mm drill holes

Now please select the size of the hole and append the last digits to your order number.
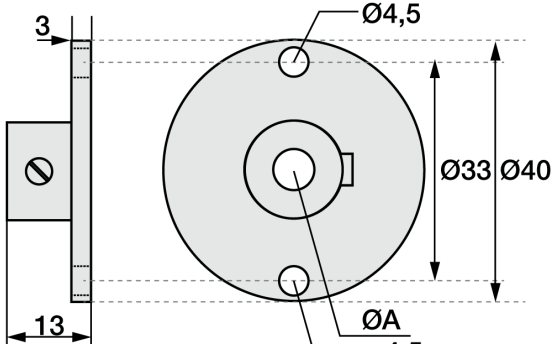
A - Hole (mm)	Code
6	060
11	110

Your order code 809500 2_ _ _
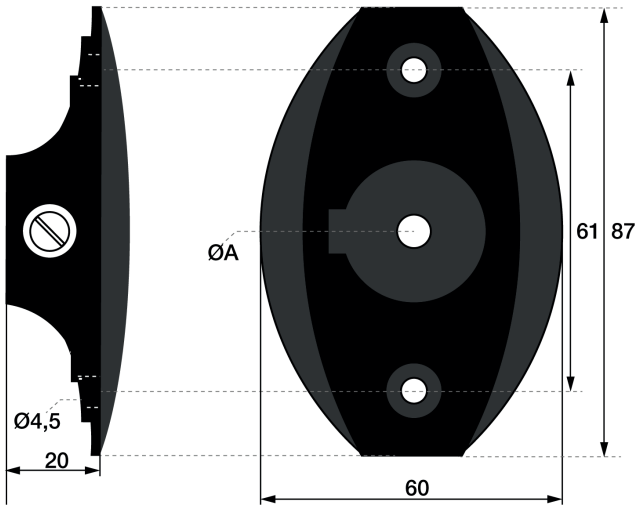
Plastic flange

Article no.	**809500 4XXX**
Material	Plastic
Fixing	2 x Ø 4,5 mm drill holes

Now please select the size of the hole and append the last digits to your order number.
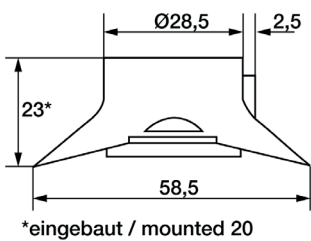
A - Hole (mm)	Code
6	060
12	120

Your order code 809500 4_ _ _

*eingebaut / mounted 20

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Matching accessories: Connection cable

Details of accessories can be found on our website.

Connection cable										
Please select your desired cable first.										
Code	**Connection type**	**Color**	**IP**	**From (°C)[1]**	**To (°C)[1]**	**Outside material**	**Material strand**	**Ø (mm)[2]**	**Q (mm²)[3]**	**Color strand**	**Ω / m[4]**
809200 0	2-Wire	black	IP67	-30	+105	PVC	PVC	4,8	0,22	rd, wt	0,07
809210 0	2-Wire	red-brown	IP67	-50	+180	Silicone	Silicone	4,7	0,22	rd, wt	0,08

Insulation resistance: ≥ 100 MOhm at min. 100 VDC | [1]Perm. range °C | [2]Tolerance ± 0,2 mm | [3]Tolerance ± 0,03 mm² | [4]per single strand

Now please select the length and add the code to the article no. of the cable.					
Length (m)	1	2	5	10	20
Code	010	020	050	100	200

Please append these digits to the part number of your desired cable.

Would you like to **contact** us? Please click **here**...