

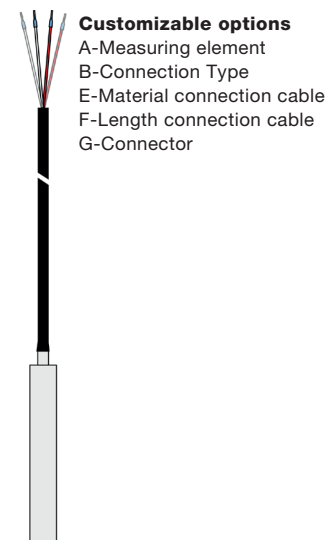
Room pendulum probe

Article no.: 801310 1011

Room pendulum probes are installed in a suspended position and measure the air temperature in large rooms or high halls. Due to their special design, they react deliberately sluggishly to temperature changes and thus enable constant control of the room temperature. To configure your temperature probe perfectly and individually for your measuring task, simply select the required configuration features and send us the order code.



General Information	
Measuring range	-30 °C to +105 °C depending on sensor Type and connection cable
Perm. °C range cable	-30 °C to +105 °C
Accuracy	depending on sensor Type
Response time	t63 / t99: information is available on request
Supply and output	
Max. meas. 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
- B-Connection Type
- E-Material connection cable
- F-Length connection cable
- G-Connector

A - Measuring element				
Code	Sensor	Accuracy / Tolerance resistance	min ²⁾	max ²⁾
A011	Pt100	Cl. A dT = ±(0,15 °C + 0,002 t) ¹⁾	-50 °C	+300 °C
A012	Pt100	Cl. B dT = ±(0,30 °C + 0,005 t) ¹⁾	-50 °C	+400 °C
A031	Pt1000	Cl. A dT = ±(0,15 °C + 0,002 t) ¹⁾	-50 °C	+300 °C
A032	Pt1000	Cl. B dT = ±(0,30 °C + 0,005 t) ¹⁾	-50 °C	+400 °C
A105	NTC 5 kOhm	R25 = 5 KOhm ±1 %	-40 °C	+125 °C
A110	NTC 10 kOhm	R25 = 10 KOhm ±1 %	-40 °C	+125 °C
A120	NTC 20 kOhm	R25 = 20 KOhm ±1 %	-40 °C	+125 °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
A323	LM235Z	typical ±1 °C	-40 °C	+125 °C
A421	KTY 81-210	R25 = 2 KOhm ±1 %	-50 °C	+150 °C
A411	KTY 81-110	R25 = 1 KOhm ±1 %	-50 °C	+150 °C

¹⁾according to IEC 751 / EN 60751 | ²⁾ Perm. range °C | Detailed information and the characteristics can be found in our download area.

B - Connection Type	
Code	Conn. Type
B2	2-Wire (2W)
B3	3-Wire (3W)
B4	4-Wire (4W)

Possible connections			
Sensor	2L	3L	4L
Pt	✓	✓	✓
NTC	✓		
Ni	✓	✓	✓
LM235Z	✓		
KTY	✓		



Contact body	
Contact geometry	Pendulum
Material	Stainless steel 1.4571 316TI
Length (mm)	100
Ø (mm)	15



E - Cable material and configuration connection cable

Picture	Code	IP	Connection Type	Color	From (°C) ¹⁾	To (°C) ¹⁾	Outside material	Material strand	Color strand	Ø (mm) ²⁾	Q (mm ²) ³⁾	Ω / m ⁴⁾
	E0000	IP67	2-Wire	black	-30	+105	PVC	PVC	rd, wt	4,8	0,22	0,07
	E0001	IP67	3-Wire	black	-30	+105	PVC	PVC	rd, wt, rd	4,8	0,22	0,07
	E0002	IP67	4-Wire	black	-30	+105	PVC	PVC	rd, wt, rd, wt	4,8	0,22	0,07

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

F - Length

Code	F010	F020	F030	F040	F050	F100	F150	F200
m	1	2	3	4	5	10	15	20

Other lengths on request

G - Connector

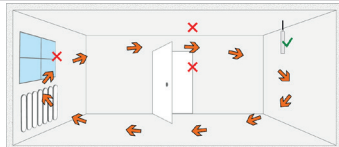
Code	Feature
G01	Insulated end ferrules (50 mm)



Delivery and Assembly

Assembly instructions	Suspended mounting, mounting material not included
Delivery and Packaging	Probe, seperatly packaged in PE bag

Important assembly advices



For an accurate measurement of the room temperature, it is important to consider the temperature dynamics in the room. Air circulation should not distort the temperature measurement. Therefore, the sensor should be installed away from objects or obstacles that shield air movements. Also, please be sure to avoid uncontrolled air currents (drafts) and uncontrolled solar radiation by installing near doors or windows (or other sources of heat).

Your order code

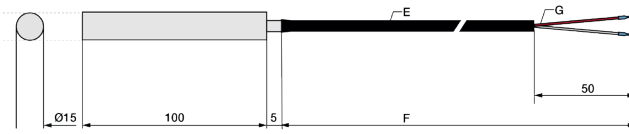
Article no.	Measuring element	Connection Type	Material connection cable	Length connection cable	Connector
801310 1011	A_____	B_____	E_____	F_____	G_____



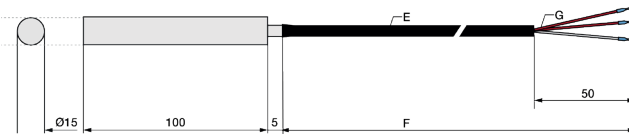
Technical drawing

<p>Customizable options A - Measuring element B - Connection Type</p>	<p>E - Material connection cable</p>	<p>F - Length connection cable G - Connector</p>	<p>All dimensions in mm</p>
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2-Wire version



3-Wire version



4-Wire version

