

Type 02060



Temperature sensors Pt up to 180°C for heat measuring devices according to ČSN EN 1434

- head (heads MAA)
- cable with stop
- cable without stop

TCM 321/05-4184

Characteristics

Sensor 1x Pt 100, Pt 500, Pt 1000

Connection 4-wire with the connection option of 2-wire

Mounting in wells.

Description - use

The sensors are supplied in a pair. They are used as a part of heat measuring devices for sensing the temperature difference in the inlet and outlet piping. The product is subject to ČSN EN 60751, ČSN EN 1434-1 to 6 design PL. The pair assignment is specified by the production number on the label. Digit indication 1 and 2 is used for differentiating for inlet and return piping.

Head sensors are connected by means of terminal in the head. Wells and stems are form stainless steel. Temperature of Al head is -40 to +150°C.

Cable sensors - with connected silicone cable.

Technical data

Measuring range: 0 to +180°C

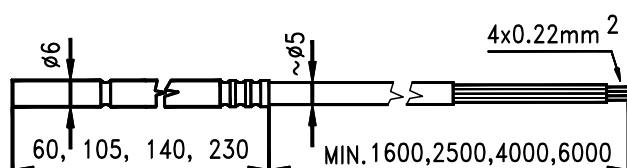
Measuring current: 1 mA

Protection class: IP 67 - cable design
IP 54 - head design

Temperature reaction time: no well - water 6 s, air 20 s
with well - water 15 s, air 40 s

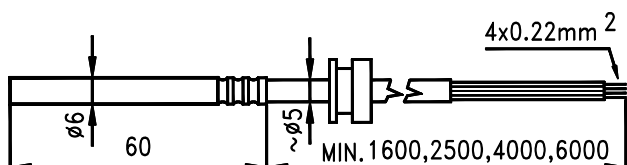
Dimension drawing

- cable without stop - type PL according to ČSN EN 1434-2



Material:
stainless steel class 17 (DIN 1.4301), cable silicone, core insulation

- cable with stop -

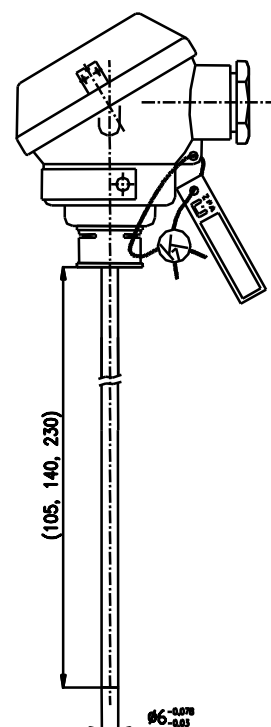


Material:
stainless steel class 17 (DIN 1.4301), cable silicone, core insulation

- head
- type PL according to ČSN EN 1434-2

Covered connection into terminal block placed in the head.
Head lid diameter 48 mm.
Temperature of Al head is -40 to +100°C.

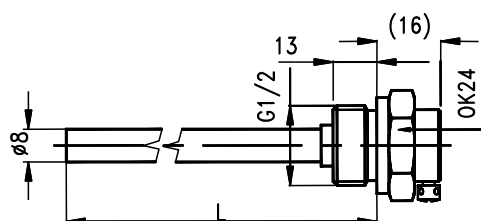
Material: stem - stainless steel class 17 (DIN 1.4301), head - Al



Due to continual technical development the manufacturer reserves the right to change parameters without prior notification.

Accessories upon order

- Wells for cable sensors with stop, internal diameter 6^{+0,048}



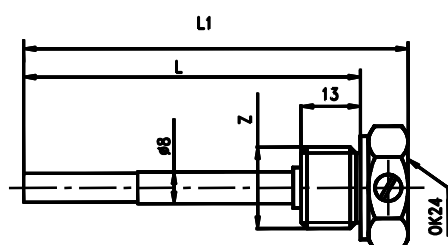
Well order No.	L	Z
31 02060 611000	65	G1/2
31 02060 611010		M20x1,5
31 02060 611001	85	G1/2
31 02060 611011		M20x1,5
31 02060 611002	120	G1/2
31 02060 611012		M20x1,5
31 02060 611003	210	G1/2
31 02060 611013		M20x1,5

- supplied with sealing Cu ring and sealing option

Material:

stainless steel class 17 (DIN 1.4541), PN 63 dle ČSN 13 0010

- wells for cable sensors without stop and head sensor type PL according to ČSN EN 1434-2, internal diameter 6^{+0,048}



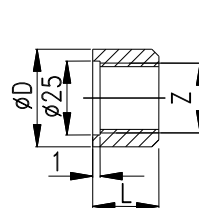
Well order No.	L	Z
31 02060 621000	40 *)	G1/2
31 02060 621010		M20x1,5
31 02060 621001	85	G1/2
31 02060 621011		M20x1,5
31 02060 621002	120	G1/2
31 02060 621012		M20x1,5
31 02060 621003	210	G1/2
31 02060 621013		M20x1,5

*) well with length 40 mm only for cable sensors

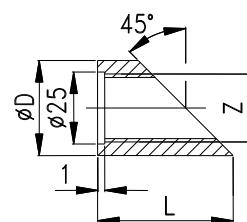
- supplied with sealing Cu ring and sealing option,

Material: stainless steel 17 (DIN 1.4541), PN 63 according to ČSN 13 0010

- weld-on-pieces



direct



angular

Order No. weld-on-piece	Type	Z	L	ØD
405 911 081 416	direct	G1/2	19	28
405 911 081 616	angular	G1/2	40	28
405 911 081 816			46	
405 911 081 516	direct	M20x1,5	19	28
405 911 081 716	angular	M20x1,5	40	28
405 911 081 916			46	

The weld-on-pieces are supplied with sealing Cu rings and have aperture for sealing option.

Material: welding steel class 11 (DIN 1.0308, DIN 2391)

- sealing rings Cu (package 10 pcs) - for wells and weld-on pieces

Order No.	Dimension
405 911 082 716	21 x 25
405 911 082 816	20 x 24

Rated values of measuring resistance Pt for information purposes depending on temperature (ČSN EN 60751)

t [°C]	Pt100 [Ω]	t [°C]	Pt100 [Ω]	t [°C]	Pt100 [Ω]
0	100,00	70	127,08	140	153,58
10	103,90	80	130,90	150	157,33
20	107,79	90	134,71	160	161,05
30	111,67	100	138,51	170	164,77
40	115,54	110	142,29	180	168,48
50	119,40	120	146,07	190	172,17
60	123,24	130	149,83	200	175,86

Warranty

24 months warranty is provided from the delivery date unless specified otherwise in the purchase contract.

Ordering devices

Code	Name			
30 02060 9	Cable temperature sensor, head			
	Code	Measuring resistance		
	1	Pt 100		
	2	Pt 500		
	3	Pt 1000		
	Code	Sensor type		
	1	cable with stop (casing 60 mm)		
	2	cable without stop		
	5	head		
	Code	Casing length, design		
	0	casing 60 mm		
	1	casing 105 mm		
	2	casing 140 mm		
	3	casing 230 mm		
	6	head		
	Code	Cable length, stem		
		Cable design		
	10	cable 1.6 m		
	20	cable 2.5 m		
	30	cable 4 m		
	40	cable 6 m		
	50	cable 1.6 m screened		
	60	cable 2.5 m screened		
	70	cable 4 m screened		
	80	cable 6 m screened		
		Head design		
	10	stem 105 mm		
	20	stem 140 mm		
	30	stem 230 mm		

Order example: 1 pair of temperature sensor, type 02060, Pt100, cable without stop, casing 140 mm, cable length 2,5 m, screened

