

TEP1 Platinum wire temperature probe

Explosion-proof case

LCIE 02 ATEX 6363X

CE 0081



II 2 G and D
EExd IIC T6 or T5
IP6X, T +80°C or T +95°C



The 3 wires assembly of these platinum wire temperature probes allows measurements to be taken up to 50 m between probe and process meters. Bearing in mind the length of the sensing element, the minimum immersion length in the fluid must be at least 60 mm.

Technical Data (20°C)

Range	-200 ... 400°C
Accuracy	±0.3°C ... 0°C (classe B)
Probe length "P"	100 - 160 - 250 - 400 - 600 - 1000 mm
Sensing element	Platinum resistance wire 100 ohms ± 0.12 ohm to 0 °C according to NF C 42 330 and DIN 43 760. Single.
Single probe	Sensing element protected by a ceramic coating.
Protective sheathing	316 Ti stainless steel tube.
Probe diameter	Ø 6 mm.
Outlet	Single probe : «T» 3 wires

Tolerances according to the temperature

Temperature °C							
-200	-150	-100	0	+100	+200	+300	+400
Tolerances ± °C							
1.3	1.05	0.8	0.3	0.8	1.3	1.8	2.3

Resistance - Temperature table for standardised probes

°C	Ohms	°C	Ohms
-200	22.80	+120	146.06
-180	27.08	+140	153.58
-160	35.53	+160	161.04
-150	39.73	+180	168.46
-140	43.87	+200	175.84
-120	52.11	+220	183.17
-100	60.25	+240	190.45
-80	68.33	+260	197.69
-60	76.33	+280	204.88
-40	84.27	+300	212.02
-20	92.16	+320	219.12
0	100.00	+340	226.17
+20	107.79	+360	233.17
+40	115.54	+380	240.13
+60	123.24	+400	247.04
+80	130.89		
+100	138.50		

Options

0 < T < 85°C

0 < T < 85°C

E 55

2 holes Ø 7

-200 ≤ T ≤ +400°C

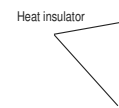
to ground

Ø 6

Sliding connection
G 1/2 or
1/2 NPT

0 < T < 85°C

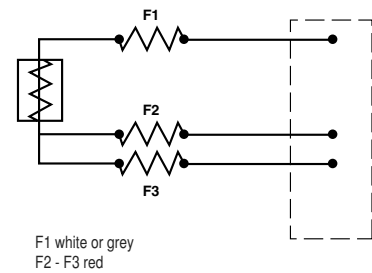
E=120



-200 ≤ T ≤ +400°C

On request the cable gland can be mounted to the left of the housing.
Cable size Ø 3 to 9 mm. Max. Ø shielded cable : 22 mm

Weight : 1.200 kg



Ordering Details - TEP1

		T E P 1		
Model	1' digit	T		
Temperature				
Type	2' ... 4' digit	E	P	1
Explosion-proof case				

After specifying the commercial type : TEP1, note the various characteristics in the following order :

Probe length : 100, 160, 250, 400, 600, 1000 mm, others

Sensing element : single

Adjustable connection : G1/4, 1/4 NPT male, 1/4 NPT female (option), G1/2, 1/2 NPT

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