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TT1081

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TT1081

Temperature probe sensor
TT-100KCED10- /US/ /V

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1


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- Precise temperature measurement in containers, tanks and pipes
- For the connection to an evaluation unit
- Very short response time for use in processes with fast temperature fluctuations
- Robust stainless steel housing with high protection rating and high pressure resistance
- Variable process connection using adapters



 Scale drawing

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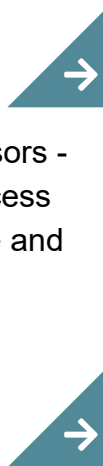
Temperature sensors -
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TP



Temperature sensors -
Sensors with process
connection, probe and
display, Type TN



Technical details

Accessories

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Further information

Technical data in another language (PDF):

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Product characteristics

Measuring range -40...150 °C -40...302 °F

Installation length EL [mm] 160

Application

System gold-plated contacts

Measuring element 1 x Pt 100; (to DIN EN 60751, class A)

Media liquids and gases

Pressure rating [bar] 160

Minimum installation depth
[mm] 15

Electrical data

Protection class III

Measuring/setting range

Probe length L [mm] 160

Measuring range -40...150 °C -40...302 °F

Accuracy / deviations

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technical alterations without prior notice. — EN-US — TT1081-00 — 09.05.2012 —

Accuracy [K] $\pm (0,15 \text{ K} + 0,002 \times |t|)$

Reaction times

Dynamic response T05 / T09 [s] 1 / 3; (according to DIN EN 60751)

Operating conditions

Ambient temperature [°C] -25...80

Note on ambient temperature plug area

Storage temperature [°C] -40...100

Protection IP 68; IP 69K

Tests / approvals

Shock resistance DIN EN 60068-2- 50 g (11 ms)
27

Vibration resistance DIN EN 60068-2-6 10 g (10...2000 Hz)

MTTF [years] 22831

Mechanical data

Weight [g] 54.4

Dimensions [mm] Ø 10

Material stainless steel (1.4404 / 316L)

Materials (wetted parts) stainless steel (1.4404 / 316L)

Probe diameter [mm] 10

Installation length EL [mm] 160


Remarks

Remarks The values for accuracy apply to flowing water.
cULus - Class 2 source required

Pack quantity 1 pcs.

Electrical connection

Connection Connector: 1 x M12; Contacts: gold-plated

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