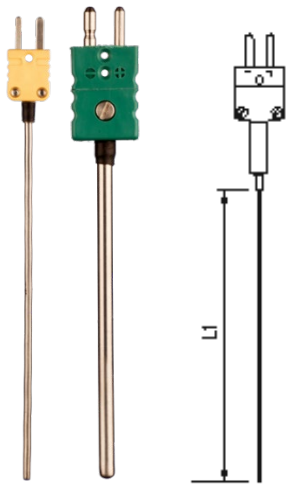
THERMOCOUPLE THERMOMETER **Measuring insert: Fixed**	**Type: TC-TM1**	Sheet No. 3-35 V2.1 **5550-E010818V2.1**

Application:

- For measuring temperatures in situations that require the sensor:
  - to be robust
  - to be flexible/ bendable
  - to have a quick reaction time
- Usually applied in:
  - Processing plants
  - Engines
  - Power plants

Properties:

- Thermocouple thermometer type K, J, E, N, T, S and R in acc. with DIN IEC 584-1
- Constructed in accordance with DIN 43733
- Measuring inset: fixed
- Process attachment: coupling, soldering or other mechanical means of attachment
- Outer protective sheath: various materials depending on the task in question
- Ambient temperatures min/max: 25/+120°C (Depending on cable insulation)
- Approved by: GOST, TCRU on request.



MECHANICAL SPECIFICATIONS:

Protective tube: ----------
Wnr.1.4571 (AISI316TI)
Wnr.1.4841
Wnr.2.4816 (Inconell 600)
Special

Sensor diameter: ----------
Ø1mm, Ø1.5mm, Ø3mm, Ø6mm
Special

Immersion length: ----------
150mm
300mm
500mm
1000mm
Special

Process attachment: ----------
None
Adjustable nipple 1/4" BSP
Adjustable nipple 1/2" BSP
Special

ELECTRICAL SPECIFICATIONS:

----Sensor element:

Type K (NiCr-Ni)	max +1150°C
Type J (Fe-CuNi)	max +700°C
Type E (NiCr-CuNi)	max +800°C
Type N (NiCrSi-Ni)	max +1250°C
Type T (Cu-CuNi)	max +300°C
Type R (Pt13%Rh-Pt):	max +1600°C
Type S (Pt10%Rh-Pt):	max +1600°C

Special

----Number of thermocouples:
1xTC
Special

----Tolerance in acc. with DIN 43732:
Class 1 for K,J,E,N (i.e. ±1,5°C or ±(0,0040xT)
Class 1 for R,S (i.e. ±1,0°C in the area 0-1100°C)
Class 2 for K,J,E,N (i.e. ±2,5°C or ±(0,0075xT)
Class 2 for R,S,B (i.e. ±2,5°C or ±(0,0025xT
Special

----Electrical connection:
Mini plug
Plug

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