



J. N. THERMOCONTROLS
AN ISO 9001 : 2008 COMPANY



Head Mounted Temperature Transmitter MST 10 RL

Head transmitter for 3- wire resistance thermometers Pt100,
for installation in a sensor head (From B)



Technical data

Power supply			
Supply voltage		7.5...45V DC	
Input			
Input	Type	Measurement ranges	Min.measurement Ranges
Resistances thermometer (RTD)	Pt100	-200 to 850 °C (-328 to 1562 °F)	10K
α=5000ppm/K or 6180ppm/K Connection type: 3-wire connection Sensor current: 0.5 mA			
Output			
Output signal		4 to 20 mA	
Load		max.(V _{Versorgungsspannung} -7.5 V)/0.022 A	
Signal on alarm		Underranging: Linear drop to 3.8 mA	
		Overranging: linear rise to 20.5 mA	
		Sensor break; sensor open-circuit: 3.6 mA or 22mA	
Linearisation/transmission behaviour		Temperature linear, resistance linear, voltage linear	

Accuracy			
	Input	Type	Accuracy
Accuracy	RTD	Pt100	0.2K or 0.1%
Performance characteristics			
Response time		1s	
Referenzbedingungen		Calibration temperature: +23 °C (73.4K)± 5 K	
Long term stability		≤0.05%/year	
Switch on delay		≤5s	
Influence of ambient		Negligible	
Load influence		Negligible	
Power supply influence		Negligible	
Self stability configuration		0 to 2%	
Filter configuring		0 to 160μA	
Resolution		0.3 μ A	

Environment conditions	
Installation instructions	Installation angle: no limit
	Installation area: Connection head accord.
	To DIN 43 729 From B; TAF 10 field housing"

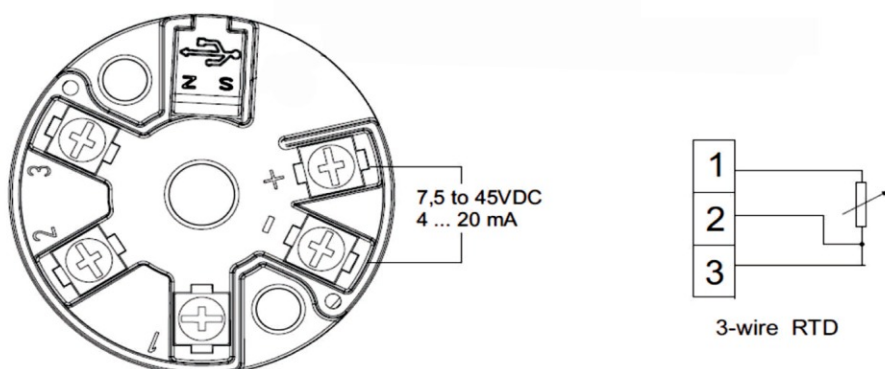


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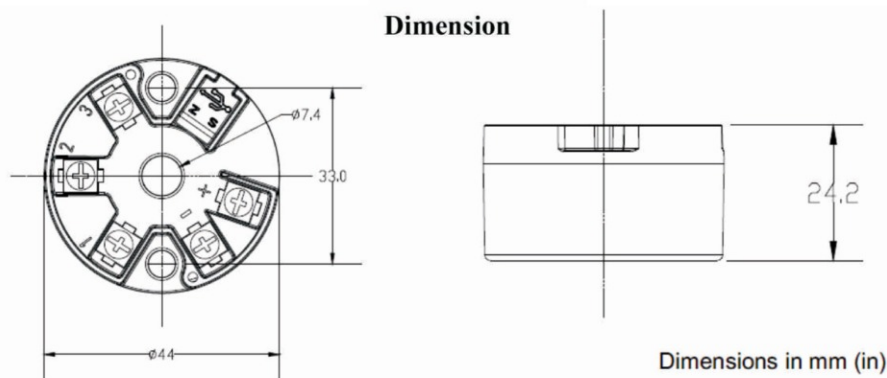


Storage temperature	
Ambient temperature limits	-40 to +85 °C (-40 to 185 °F)
Storage temperature	-40 to +100 °C (-40 to 212 °F)
Condensation	Allowable
Degree of protection	IP 00
Shock and vibration resistance	4g/2 to 150 Hz as per IEC 60 068-26
Electromagnetic compatibility (EMC)	Interference immunity and interference emission according to GB/T17626.2-1998), compliance with IEC 61000-4-3:1995
Others	
Dimensions	44 mmX22.5 mm
Weight	Approx. 33.5g
Materials	Housing: PC Potting: epoxy

Electrical connections



Dimension



How to program

