



Temperature sensor with process connection

TM-100KFER12-

/US/



L = probe length corresponds to installation length EL



Product characteristics

Measuring range	-40...150 °C	-40...302 °F
Process connection	threaded connection G 1/2 external thread sealing cone	
Installation length EL [mm]	100	

Application

Special feature	Gold-plated contacts	
Measuring element	1 x Pt 100; (to DIN EN 60751, class A)	
Media	liquids and gases	
Pressure rating [bar]	160	
Pressure rating [MPa]	16	
Note on pressure rating	sensor	
	When mounted in adapters the specifications of the adapter data sheet apply.	
Minimum installation depth [mm]	15	

Electrical data

Protection class	III
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Measuring/setting range

Probe length L	[mm]	100	
Measuring range		-40...150 °C	-40...302 °F

Accuracy / deviations

Accuracy [K]	± (0,15 K + 0,002 x t)
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Response times

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

Ambient temperature [°C]	-25...80
Storage temperature [°C]	-40...100
Protection	IP 68; IP 69K

Tests / approvals

Shock resistance	DIN EN 60068-2-27	50 g (11 ms)
Vibration resistance	DIN EN 60068-2-6	10 g (10...2000 Hz)
MTTF [years]	22831.05	

TM4531



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Mechanical data		
Weight	[g]	142
Housing		cylindrical
Dimensions	[mm]	Ø 24.5 / L = 161.6
Materials		stainless steel (316L/1.4404)
Materials (wetted parts)		stainless steel (316L/1.4404) electropolished
Tightening torque	[Nm]	30...50
Process connection		threaded connection G 1/2 external thread sealing cone
Surface characteristics Ra/Rz of the wetted parts		Ra: < 0.8
Probe diameter	[mm]	6
Installation length EL	[mm]	100

Remarks	
Remarks	operating voltage "supply class 2" according to cULus The values for accuracy apply to flowing water.
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M12; coding: A; Contacts: gold-plated



Connection

