TFK01

Compact Resistance Thermometer

- With angle connector as per DIN EN 175301-803
- Compact design
- Replaceable measuring insert
- Integral transmitter
- Resistance-current and voltage output
- Parts in contact with liquids/gases are made of stainless steel
- -200°C...600°C
- Short response times
- Very easy to service



Description:

The TFK01 features a temperature-dependent electrical resistor integrated in a protective stainless steel tube. The resistance value changes as a function of the liquid temperature. In the model with an integral transmitter, this resistance value is transformed into a current signal (4...20 mA) or a voltage signal (0...10 V). The respective signal is then output at the 5-pin plug connection. In the model with no transmitter, the unconverted resistance value can be picked up directly at the plug connection. For short response times, there is also a version available with a tapered immersion shank. However, the best performance will be obtained when using an angle connector (DIN EN 175301-803).

Typical Applications:

The resistance thermometer and thermocouples (DIN 43650) are very well suited for general use in industrial machinery and systems, plants, tanks and piping as well as in applications in the chemical industry, process engineering and food processing, where they are preferred for measuring the temperatures of liquids and gases. Their compact design make them especially suitable for installation in restricted locations and confined spaces.



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Models:

TFK01.xPx:	Pt100 output, 2-, 3 or 4-wire
	Single or dual element
TFK01.A04:	420 mA output, 2-wire
TFK01.V10:	010 V output, 3-wire

Technical Specifications:

Sensor:	Pt100 as per DIN IEC 75, Class E
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Electrical connection: Angle connector (DIN EN 175301-803 Form A), IP65

Protective tube:

Diameter:	6 or 8 mm
Materials:	Stainless steel 1.4571

Process

Connections: Fixed or sliding compression fitting

Max. pressure

at 20°C:	Diameter of protective tube: 6 mm: 40 bar
	Diameter of protective tube: 8 mm: 100 bar
Transmitter:	Supply voltage: 1230 VDC
	Output: 420 mA, 2-wire
	010 V, 3-wire
	Min. measuring range: 50 Kelvin
	Max. measuring range: 800 Kelvin

Dimensions:



Model Coding:

Order Number: TFK01. 1P2.	6.	08F.	0050.	200.	0
Compact Resistance Thermometer					
Sensor: 1P2 = 1 x Pt100, 2-wire 1P3 = 1 x Pt100, 3 wire 1P4 = 1 x Pt100, 4 wire 2P2 = 2 x Pt100, 2-wire A04 = 4-20 mA (please specify measuring range desired)* V10 = 0-10 V (please specify measuring range desired)* * preferably 050°C, 0100°C, 0120°C					
Diameter of immersion shank: 6 = 6 mm 8 = 8 mm (not for compression fitting)					
Process Connections: $D8F = G 1/4 A$, fixed $10F = G 3/8 A$ fixed $15F = G 1/2 A$, fixed $2NF = 1/2 NPT$ fixed $D8V = G 1/4$, sliding $10V = G 3/8$, sliding $15V = G 1/2$, sliding $15V = G 1/2$, sliding $1NV = 1/4^* NPT$ sliding $2NV = 1/2^* NPT$ sliding					
Installation length: (from edge of seat) 0050 = 50 mm 0075 = 75 mm 0100 = 100 mm 0160 = 160 mm 0200 = 200 mm 0300 = 300 mm 0400 = 400 mm 0500 = 500 mm 0500 = 500 mm 0xxxx = as specified by the customer			-		
Temperature range: 200 = - 50200°C, without protective tube 400 = -200400°C, with protective tube: 50 m 600 = -200600°C, with protective tube	ım			J	

a) without transmitter: 50 mm
 b) with transmitter: 100 mm, as well as fixed measuring insert

Options: 0 = None

VR = Tapered protective tube (for description, see "Options" section)

Options:

For faster response times, a protective tube tapered down to 3 mm diameter may be used. This arrangement is only intended for models with fixed threaded connection and a protective tube with a diameter of 6 mm. With installation lengths greater than 100 mm, the device is fitted with a reinforced tube with a diameter of 8 mm.

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