Be sure. testo

Contact thermocouple Type J

with PVC cable

Article no.: 802053 1111

The contact thermocouple type J with PVC cable is used for precise temperature measurement on surfaces. It is particularly suitable for applications in mechanical and apparatus engineering where the temperature needs to be measured on smooth surfaces. The sensor is simply attached using a screw connection and offers a cost-effective solution for the temperature range up to 90 °C. We offer various cable lengths and connection plugs so that you can adapt the thermocouyple optimally to your installation situation. You will find suitable plugs and connection cables in our accessories.

General Information	
Measuring range	-30 °C to +90 °C depending on chosen connection cable
Perm. °C range cable	-30 °C to +90 °C
Accuracy	-40 °C to +375 °C: ±1,5 °C according to DIN IEC 60584 Class 1

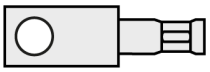
Supply and output	
Measuring element	Thermocouple Type J
Measuring point	Measuring point isolated
Measurement signal	Thermovoltage

Ambient conditions	
Protection class	IP54 according DIN 60529 (depending on cable)
Humidity and moisture condensation resistance	according to application-specific qualification

Certificates and Standards	
Standards	DIN EN 61326-1:2013 | DIN EN IEC 63000:2019-05
Directive	RoHS 2011/65/EU | 2014/30/EU

Customizable options
E - Material connection cable
F - Length connection cable
G - Connector
H - Bend protection

Contact body

Picture	Contact body		Dimensioning		Drawing
	Contact geometry	Square	Length (mm)	15	
	Material	Stainless Steel	Width (mm)	8	
	Mounting hole (mm)	5,2	Height (mm)	8	
	We offer other contact bodies on request.				

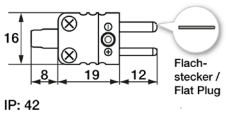
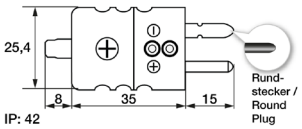
E - Cable material and configuration connection cable

Picture	Code	Type	Color	IP	From (°C)[1]	To (°C)[1]	Outside material	Material strand	Ø (mm)[2]	Q (mm²)	Color strand
	E8010	Thermocouple cable	Type J[3]	IP67	-30	+90	PVC	PVC	3,8	0,22	bk, wt
	Insulation resistance: ≥ 100 MOhm a min. 100 VDC | [1]Perm. range °C | [2]Tolerance ± 0,2 mm | [3]Color according to IEC 584 | [4]per thermocouple										

MW / KC / 23.05.2025

Testo Sensor GmbH
Testo-Straße 1
D-79853 Lenzkirch
+49 7653 96597-71
webshop@testo-sensor.de
Managing Director: Prof. Burkart Knospe, Timo Löffler
Amtsgericht Freiburg HRB 706025 | Umsatzsteuer-ID.: DE274417683
Please find our whole temperature probe and transmitter portfolio in our webshop at: www.testo-sensor.shop

F - Length								
Code	F010	F020	F030	F040	F050	F100	F150	F200
m	1	2	3	4	5	10	15	20
Other lengths on request								

G - Connector			
Picture	**Code**	**Feature**	**Technical drawing - Stecker**
	G01	Insulated end ferrules (50 mm)	
	G11	Mini-TC connector Type J bk	
	G31	TC connector Type J bk	

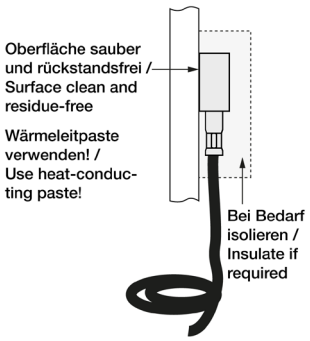
H - Bend protection				
Picture	**Length (mm)**	**Material**	**Code**	**Feature**
	50	Stainless steel spring 1.4310 | SUS 302	H0	Without (Standard)
			H1	Metal bend protection

Your order code				
Article no.	Material connection cable	Length connection cable	Connector	Bend protection
802053 1111	E_____	F_____	G_____	H_____

Delivery and Assembly	
Assembly instructions	by means of screw fastening or mounting adhesive
Delivery and Packaging	Probe, seperatly packaged in PE bag

Important assembly advices

The surface must be brightly polished and free of residues. Please attach the probe firmly. Please ensure good thermal contact, use thermal paste if necessary. Depending on the requirements, it may be useful to insulate the probe to minimize the influence of the ambient temperature.



MW / KC / 23.05.2025

Testo Sensor GmbH

Testo-Straße 1
D-79853 Lenzkirch

+49 7653 96597-71
webshop@testo-sensor.de

Managing Director: Prof. Burkart Knospe, Timo Löffler
Amtsgericht Freiburg HRB 706025 | Umsatzsteuer-ID.: DE274417683

Technical drawing			
Customizable options	E - Material connection cable F - Length connection cable	G - Connector H - Bend protection	All dimensions in mm

Version with insulated end ferrules

Version with Mini TE connector

Version with TE connector

MW / KC / 23.05.2025

Testo Sensor GmbH

Testo-Straße 1
D-79853 Lenzkirch

+49 7653 96597-71
webshop@testo-sensor.de

Managing Director: Prof. Burkart Knospe, Timo Löffler
Amtsgericht Freiburg HRB 706025 | Umsatzsteuer-ID.: DE274417683

Matching accessories: Thermocouple cables

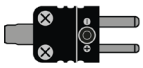
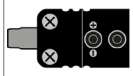
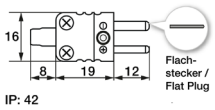
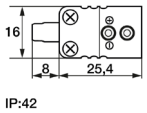
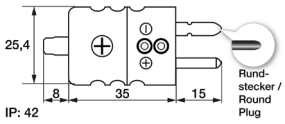
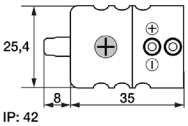
Thermocouple cables - Please select your desired cable first.												
	Order code	Type	Color	IP	From (°C)[1]	To (°C)[1]	Outside material	Material strand	Ø (mm)[2]	Q (mm²)	Color strand	Ω / m[4]
	809300 1	Thermocouple cable	Type J[3]	IP67	-30	+90	PVC	PVC	3,8	0,22	bk, wt	2,50

Insulation resistance: ≥ 100 MOhm at min. 100 VDC | [1]per. °C range | [2]Tolerance ± 0.2 mm | [3] Color according to IEC 584 | [4]per thermocouple

Now please select the length and add the code to the article no. of the cable.					
Length (m)	1	2	5	10	20
Code	010	020	050	100	200

Please append these digits to the part number of your desired cable.

Matching accessories: Connector

G - Connector					
Picture	**Code**	**Feature**	**Picture**	**Code**	**Feature**
	809140 1000	Mini-TC connector Type J bk		809100 1000	Mini-TC coupling Type J bk
	809150 1000	TC connector Type J bk		809110 1000	TC coupling Type J bk
Technical drawing - Connector					
		Mini-TC connector			Mini-TC coupling
		TC connector			TC coupling

Other connectors available on request

Matching accessories: Heat-conducting paste

Heat-conducting paste		
Picture	**Article no.**	**809540 1000**
	Content	10 ml
	Thermal conductivity	>2.5 W/mK
	Min / Max °C	-30 °C to +280 °C
	Thermal resistance	< 0.126

MW / KC / 23.05.2025

Testo Sensor GmbH

Testo-Straße 1
D-79853 Lenzkirch

+49 7653 96597-71
webshop@testo-sensor.de

Managing Director: Prof. Burkart Knospe, Timo Löffler
Amtsgericht Freiburg HRB 706025 | Umsatzsteuer-ID.: DE274417683