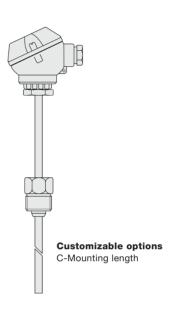
Thermocouple Type K with J-Head - HL

Article no.: 803018 1211

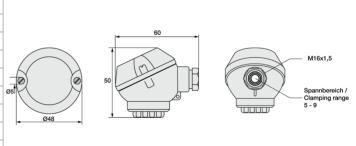
Our screw-in thermocouple type J with J-head - HL is suitable for use up to 800 °C and is installed via the ${\rm G1/2}$, thread and the neck tube. The J-head with the protection sleeve and neck tube is designed according to DIN43772 Form 2G. To configure your screw-in thermocouple for your measuring task, simply select the required configuration features and send us the order code.



General Information	
Measuring range	-40 °C to +800 °C
Perm. (°C) conn. head	-40 °C to +100 °C
Accuracy	-40 °C to +375 °C: ±1,5 °C 375 °C to 1.000 °C: ±0,004 t according to DIN IEC 60584 Class 1
Supply and output	
Measuring element	Thermocouple Type K
Measuring point	Measuring point isolated
Measurement signal	Thermovoltage
Ambient conditions	
Protection class	IP54 according DIN 60529
Humidity and moisture condensation resistance	according to application-specific qualification
Certificates and Standard	ds
Standards	DIN EN 61326-1:2013 DIN EN IEC 63000:2019-05
Directive	RoHS 2011/65/EU 2014/30/EU



Connection head	
Design	Form J (MA)
Material	Aluminium pressure die-casting
W/H/Ø (mm)	50/60/48
Color	RAL 9006 aluminium silver
Cable gland head	with strain relief
Cable electricial connection	Screw terminals max. 1,5 mm ²
Clamping range (mm)	5 to 9
Ambient temperature max	+100 °C
Sensor unit	Fixed



Screw-in thread		Your order c	ode	C - Mou				
Material	Stainless steel 1.4571 316TI		Article no.		Length (mm)			
Length (mm)	14			C0050	50 ¹ }			
Process connection	G1/2 "	C0100 100 ¹⁾ C0150 150 ¹⁾ C0200 200 ¹⁾ C0250 250 ¹⁾ C0300 300 ¹⁾ C0400 400 ¹⁾		C0100	1001}			
Wrench size	27				C0150	1501}		
Protection sleeve			000010 1011		A PARAMETER OF THE PROPERTY OF			
Material	Stainless steel 1.4571 316TI		803018 1211	003010 1211	C	C0250	2501}	
Mounting length (mm)	please choose						C0300	3001}
Ø (mm)	6 ² }			C0400	4001}			
Length neck tube (mm)	60	1		C0500	5001}			
Other mounting lengths	on request $ ^{1}$ Tolerance $\pm 1\% ^{2}$	Tolerance ± 0,	1 mm					

Testo Sensor GmbH

J +49 7653 96597-71

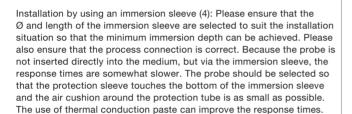
Managing Director: Prof. Burkart Knospe, Martin Arndt, Timo Löffler

Testo-Straße 1 D-79853 Lenzkirch webshop@testo-sensor.de

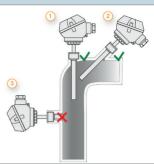
Amtsgericht Freiburg HRB 706025 | Umsatzsteuer-ID.: DE274417683 Please find our whole temperature probe and transmitter portfolio in our webshop at: www.testo-sensor.shop

Important assembly advices

Measuring errors can occur due to heat dissipation to the environment. To keep these as small as possible, we recommend immersing the protection sleeve of your temperature probe as deep as possible into the medium to be measured during installation. The optimum installation depth should be 10-15 times the \varnothing of the protection sleeve or, if an immersion sleeve is used, the \varnothing of the immersion sleeve. When installing in pipes whose \varnothing does not have a sufficiently deep installation depth, you should either install the probe at an angle or in a pipe elbow. Make sure that you have enough space so that the probe can be removed again. 1) Installation with sufficient installation depth 2) Installation at an angle with small pipe \varnothing 3) Not like this: Minimum installation depth not reached



Please lay the cable so that no water can penetrate the probe and with a spare loop (4). This allows you to extend the probe without disconnecting the electrical connection.

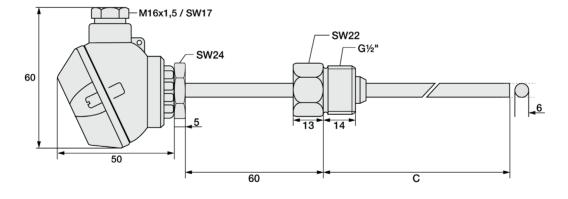




Technical drawing

Customizable options C - Mounting length

All dimensions in mm



Matching accessories: Thermocouple cables

Details of accessories can be found on our website.

Thermocou	iple cables										
Please sel	ect your desired cable	e first.									
Order code	Туре	Color	IP	From (°C) ¹	To (°C)1}	Outside material	Material strand	Ø (mm) ^{2}}	Q (mm²)	Color strand	Ω / m ^{4}}
809300 2	Thermocouple cable	Type K ³	IP67	-30	+105	PVC	PVC	3,8	0,22	gn, wt	4,50
809310 2	Thermocouple cable	Type K ^{3}}	IP67	-50	+180	Silicone	FEP	3,6	0,22	gn, wt	4,50

Insulation resistance: ≥ 100 MOhm at min. 100 VDC | ¹¹per. °C range | ²¹Tolerance ± 0.2 mm | ³¹ Color according to IEC 584 | ⁴¹per thermocouple

Now please select the	e length and ad	ld the code to t	he article no. o	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

Connector							
Picture	Code	Feature	Picture	Code	Feature		
(⊗ •)	809140 2000	Mini-TC connector Type K gn	□	809100 2000	Mini-TC coupling Type K gn		
+ ••	809150 2000	TC connector Type K gn	+ 00	809110 2000	TC coupling Type K gn		

Other connectors available on request

Matching accessories: Heat-conducting paste

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

Matching accessories: Immersion sleeves

Immersion sleeves				Please select Ø and mounting length and append			
Picture	Immersion sleeve G1/2 " with internal thread			the codes to your order code.			
	Article no.	809520 3XXX		Ø Inside			
	Temp. Max	+600 °C	Code	/ Outside (mm)	Code	ML (mm)	
	pressure proof until	40 bar	1	6,5 / 9	03	30	
	Material	Stainless steel 1.4571 316TI	2	7,5 / 10	08	80	
	Process connection	G1/2 "	3	8,5 / 11	13	130	
	Wrench size	27	4	9,5 / 12	18	180	
	Screw-in thread	G1/2 "			23	230	
	O	Immersion sleeve, packed			28	280	
	Scope of delivery	in PE bag			38	380	
	Your order code	809520 3	_				

Technical drawing Immersion sleeves

