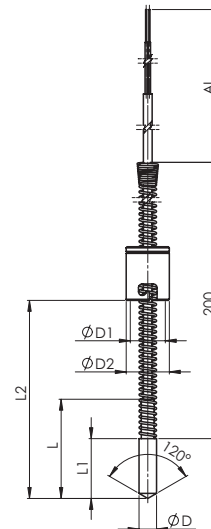


# T1565

## Cable Thermocouple Temperature Sensors for Plastic Industry

- Thermocouple sensor type “J”, “K”.
- Measuring range -50 to 800 °C.
- Accuracy class 2 acc. to IEC 584-2.
- Insulated measuring junction
- Stem diameter 6 and 8 mm peak angle 120°.
- Stem material W.Nr. 1.4401.
- Optional length insulation and wiring termination.
- Adjustable suspended bayonet cap 40 to 210 mm, with inner diameter 11.7 to 16 mm / 2 slots.
- Full stainless steel design
- Optional connecting pipe union
- Housing IP 67
- Certification GOST R.



### Application

Cable thermocouple temperature sensors T1565 with cable connecting line (firmly connected) are designed for temperature measurement at devices for plastic industry and similar applications.

### Description

A single or dual thermocouple sensor type “J” or “K” is placed in the stem of measuring insert. The stem continues by stainless steel spring with extended termination. Position of the bayonet cap is adjustable through the entire length of the spring. Sensors are mounted into the bore by bayonet cap and by optional connecting pipe union, which can be also supplied.

### Technical specifications

#### Thermocouple:

type “J”, “K” - accuracy class 1, 2 acc. to IEC 584-2

#### Measuring range:

-50 to +350 °C - thermocouple “J”  
 -40 to +800 °C - thermocouple “K”  
 (depends on wire insulation)

#### Electric strength:

500 V<sub>eff</sub>

#### Used materials:

stem - stainless steel W.Nr. 1.4401  
 spring - stainless steel  
 bayonet cup - stainless steel W.Nr. 1.4305

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Type	Description			
T1565	Cable thermocouple temperature sensors for plastic industry			
<b>Code</b>	<b>Thermocouple</b>	<b>Measuring range</b>		
21	1x"J" (Fe-CuNi), insulated	-50 to +350 °C		
22	1x"K" (NiCr-NiAl), Insulated	-40 to +800 °C		
99	Other			
<b>Code</b>	<b>Accuracy class according to IEC 584-2</b>			
7	2			
<b>Code</b>	<b>Stem</b>			
	<b>Outer diameter of the stem D [mm]</b>	<b>Outer diameter of spring [mm]</b>	<b>Stem material</b>	
S71	6	6	W.Nr. 1.4401	
S81	8	8	W.Nr. 1.4401	
<b>Code</b>	<b>Nominal length of the stem L [mm]</b>	<b>Length L1 [mm]</b>		
L38	38	7	- only for stem with diameter 8 mm	
L40	40	25	- only for stem with diameter 6 mm	
L45	45	27	- only for stem with diameter 8 mm	
<b>Code</b>	<b>Bayonet cap</b>			
	<b>Inner diameter of cap D1 [mm]</b>	<b>Outer diameter of cap D2 [mm]</b>	<b>Length L2 [mm]</b>	
B00	Without bayonet cup and spring			
B11	11,4	13	15 to 190	- only for stem with diameter 6 mm
B12	12	14	15 to 190	
B14	14	15,8	15 to 190	
B15	15	16,5	15 to 190	
B16	16	19,7	15 to 190	- only for stem with diameter 8 mm
<b>Code</b>	<b>Cable - nominal length AL [mm]</b>			
KV200	2500			
KV1000	1000			
KV2500	2500			
KV5000	5000			
...	Other (please fill length in mm, step 100 mm)			
<b>Code</b>	<b>Insulation</b>	<b>Measuring range</b>	<b>Ambient temperature of cable</b>	<b>Wire cross section / diameter</b>
I1	Silicone insulated	-50 to +200 °C	-50 to +200 °C	2x0.22 m <sup>2</sup>
I2	Teflon insulated	-50 to +260 °C	-50 to +260 °C	2x0.22 m <sup>2</sup>
I4	Fibreglass insulation / galvanized steel wire braiding	-20 to +350 °C	-20 to +350 °C	2x0.22 m <sup>2</sup> - only for T/C 1x"J"
I5	Fibreglass insulation / tinned copper wire braiding	-20 to +350 °C	-20 až +350 °C	2x0.25 m <sup>2</sup> - only for T/C 1x"K"
I6	Fibreglass insulated	-40 až +600 °C	-40 až +600 °C	2x1 m <sup>2</sup> - only for T/C 1x"K"
I7	Mineral fibre insulated	-40 až +800 °C	-40 až +1200 °C	2x0.8 m <sup>2</sup> - only for T/C 1x"K"
I9	Other			
<b>Code</b>	<b>Cable termination</b>			
00	Flying leads			
01	Insulated pressing tube according to DIN 46228 (standard)			
02	Flat connector for single sensor (plug), standard version			
04	Flat connector for single sensor (plug), mini version			
09	Other			
	<b>OPTIONAL ACCESSORIES</b>			
<b>Code</b>	<b>Product certifications</b>			
GR	GOST R certificate			
<b>Code</b>	<b>Calibration</b>			
KTE32A	Single sensor calibration in three customer's given temperature points (-40 to +800 °C)			
KTE9	Other			
<b>Code</b>	<b>Extension piece for bayonet cap</b>			
NB1	Outer diameter 12 mm, length 30 mm, connecting thread M10x1, material stainless steel			
NB2	Outer diameter 12 mm, length 60 mm, connecting thread M12x1, material stainless steel			
NB3	Outer diameter 11 mm, length 23 mm, connecting thread M8x1,25; material galvanized brass			
NB4	Outer diameter 15 mm, length 60 mm, connecting thread M14x1,5; material galvanized brass			
<b>Code</b>	<b>Connectors, fuses of connectors and cables</b>			
Z2	Counterpart of connector (plug), standard version, for single sensor <sup>1)</sup>			
Z4	Counterpart of connector (plug), mini version, for single sensor			
PZ2	Counterpart of connector (rectangle panel plug), standard version, for single sensor			
PZ4	Counterpart of connector (rectangle panel plug), mini version, for single sensor			
PS	Lock of connection connectors standard, for single sensor			
PM	Lock of connection connectors mini, for single sensor			
PK1	Lock anti pull-up cable, for standard connector, for single sensor			
PK2	Lock anti pull-up cable, for standard connector, for double sensor			
PK3	Lock anti pull-up cable, for mini connector, for single sensor			

Example of order: T1565 22 7 S71 L40 B12 KV2500 I2 02 KTE32A (-20, 100, 200) NB1 Z2

<sup>1)</sup>... Female connector is possible to connect to standard or mini male connector

# Cable Thermocouple Temperature Sensors for Plastic Industry T1565

## Temperature resistance and housing:

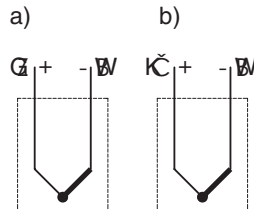
Code	Insulation	Measuring range	Ambient temperature of cable	Wire cross section / diameter	Housing
<b>Thermocouple "J"</b>					
I1	Silicone insulated	-50 to +200 °C	-50 to +200 °C	2x0.22 m <sup>2</sup>	IP 67
I2	Teflon insulated	-50 to +260 °C	-50 to +260 °C	2x0.22 m <sup>2</sup>	IP 60
I4	Fibreglass insulation / galvanized steel wire braiding	-20 to +350 °C	-20 to +350 °C	2x0.22 m <sup>2</sup>	IP 60
<b>Thermocouple "K"</b>					
I5	Fibreglass insulation / tinned copper wire braiding	-20 to +350 °C	-20 až +350 °C	2x0.25 m <sup>2</sup>	IP 60
I6	Fibreglass insulated	-40 až +600 °C	-40 až +600 °C	2x1 m <sup>2</sup>	IP 60
I7	Mineral fibre insulated	-40 až +800 °C	-40 až +1200 °C	2x0.8 m <sup>2</sup>	IP 60

## Electrical connection

a) thermocouple "K"

b) thermocouple "J"

W - white, G - green, K - black



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