

Optional Parameters Including the Creation of an Order Code (Table 16NP.2)

Pos.	Code	MTC16NP - ① ② ③ - ④ - ⑤ - ⑥ ⑦	
①	Type of measuring insert with a diameter of 3.0 mm (thermocouples acc. ČSN EN 60584-1 ed. 2)		
	0	1 x „K“, thermocouple isolated from the sheath, sheath material 2.4816	
	1	1 x „J“, thermocouple isolated from the sheath, sheath material 1.4541	
	4	1 x „L“, thermocouple isolated from the sheath, sheath material 1.4541 (acc. DIN 43 710)	
	5	1 x „N“, thermocouple isolated from the sheath, sheath material 2.4816	
②	Accuracy class acc. ČSN EN 60584-1 ed. 2		
	0	Accuracy class 2 (Type L without accuracy class acc. DIN 43 710)	
	1	Accuracy class 1	
③	Threaded fitting		
	0	Process thread M20 x 1,5, OK24	
	1	Process thread G½“, OK24	
④	Immersion depth U [mm] and tube material		
	Axxx	Material 1.4541, selectable range from 50 mm to 2000 mm (in 10 mm increments)	
	Bxxx	Material 1.4841, selectable range from 50 mm to 2000 mm (in 10 mm increments)	
⑤	Head type		
	0	B	
	1	BH	
	2	BUZ with screws with leaden seal holes	
	3	BUZ with snap lock	
	4	BUZH with screws with leaden seal holes	
	5	BUZH with snap lock	
⑥	Transmitter		
	7	INOR APAQ C130 TC	Not for L thermocouples.
	1	INOR miniPAQ - HLP	
	4	INOR IPAQ C520	Not for L thermocouples.
	5	INOR IPAQ C330	Not for L thermocouples.
	6	INOR IPAQ C530	Not for L thermocouples.
	A	With another transmitter (e.g. supplied by the customer)	

Order code example: MTC16NP-010-A500-05

... 1 x „K“, thermocouple isolated from the sheath, sheath material 2.4816
 ... Accuracy class 1 acc. ČSN EN 60584-1 ed. 2
 ... Process thread M20 x 1,5
 ... Immersion depth U = 500 mm, material 1.4541
 ... Head B
 ... INOR IPAQ C330

Approximate weight of the product: MTC16NP-010-A500-05 ... 1,2 kg

Recommended Maximum Temperatures of Sensor Parts (Table 16NP.3)

Sensor part	Continuous operation	Short-term operation
head with transmitter	< 85 °C	-
Threaded fitting	< 800 °C	-
Protection tube, material 1 .4541	< 800 °C	-
Protection tube, material 1 .4841	< 1100 °C	-
„J“, sheath dia. 3,0 mm	< 470 °C	< 520 °C
„K“, sheath dia. 3,0 mm	< 980 °C	< 1050 °C
„N“, sheath dia. 3,0 mm	< 980 °C	< 1050 °C
„L“, sheath dia. 3,0 mm	< 480 °C	< 530 °C

Notes: Operating temperatures are related to temperature measurement in a chemically inert environment. The values are determined empirically.

Length Tolerances (Table 16NP.4)

Sensor length U	Length tolerance U
$U \leq 1000$ mm	± 2 mm
$1000 < U$ mm	± 2 mm

Head types

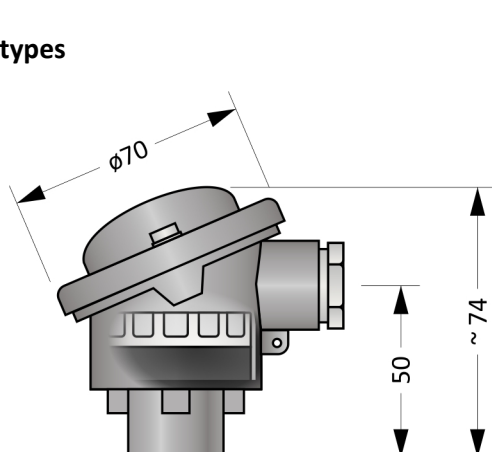


Figure 16NP.2: Head B

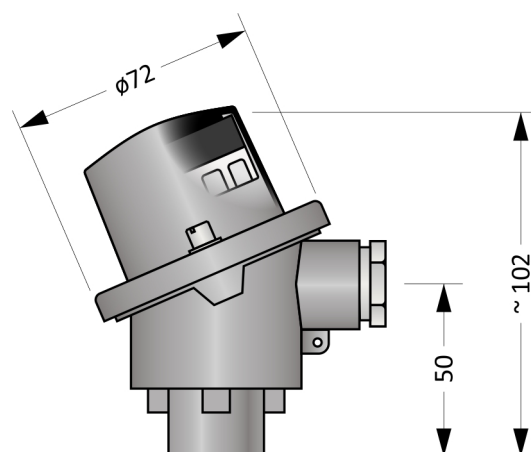


Figure 16NP.3: Head BH

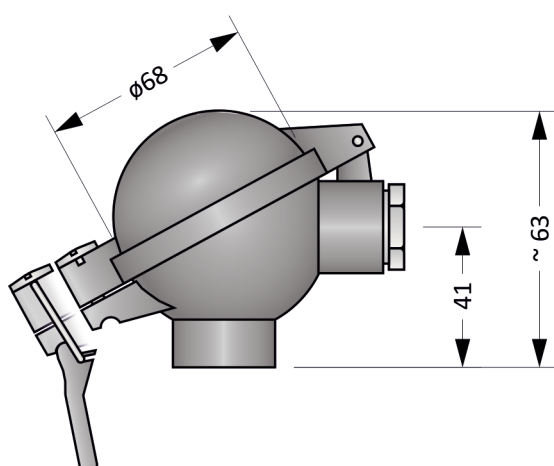


Figure 16NP.4: Head BUZ

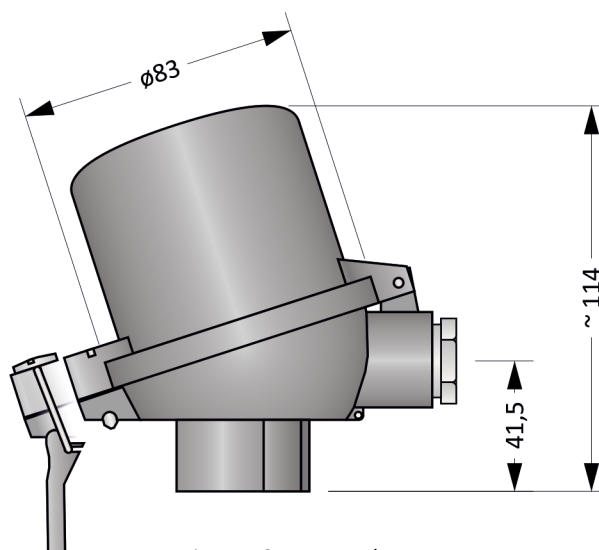


Figure 16NP.5: Head BUZH

Head mounted transmitter (Table 16NP.5)

The transmitter is installed in the head and replaces the terminal block. When using a head with a raised lid (version BH, BUZH), the terminal block is preserved and the transmitter is placed in the lid.

Typ	Input	Output	Setting	Notes
INOR APAQ C130 TC	Thermocouple - B, E, J, K, N, R, S, T	4 ... 20 mA	INOR CONNECT (NFC)	
INOR miniPAQ - HLP	Thermocouple - B, C, E, J, K, L, N, R, S, T, U RTD	4 ... 20 mA	PC WIN ConSoft (ICON USB adapter)	
INOR IPAQ C330	Thermocouple - B, C, D, E, J, K, N, R, S, T RTD, mV	4 ... 20 mA, galvanic isolated	PC WIN ConSoft (ICON USB adapter) INOR CONNECT (NFC, Bluetooth®)	
INOR IPAQ C530	Thermocouple - B, C, D, E, J, K, N, R, S, T RTD, mV	4 ... 20 mA, HART, galvanic isolated	INOR CONNECT (NFC, Bluetooth®) PC WIN ConSoft (ICON USB adapter)	
INOR IPAQ C520	Thermocouple - B, C, D, E, J, K, N, R, S, T RTD, mV	4 ... 20 mA, HART, galvanic isolated	PC WIN ConSoft (ICON USB adapter)	2 inputs (redundancy) SIL 2, ATEX certificate

Notes: Detailed information about the transmitters can be found in the respective data sheets.

Installation And Operating Instructions

For mechanical installation, a tube and/or threaded fitting is used. Other parts cannot be used. The longest lifetime of the sensor can be achieved by mounting it vertically.

To ensure IP54 protection of the head, it is necessary to install the sensor in a vertical position with the head in the upper position.

The electrical connection of sensor with the transmitter is shown in Figure 16NP.6.

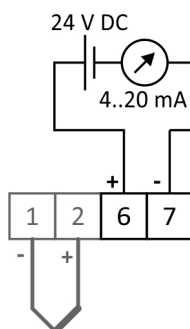


Figure 16NP.6: Transmitter wiring diagram