

Thermocouples Model Series TC7X0, Sheathed Design

WIKA Data Sheet TE 65.40



Applications

Suitable for all industrial and laboratory applications

Special Features

- Application ranges from 0 °C to +1200 °C
- Flexible stainless steel sheath, mineral insulated wire
- High mechanical strength, vibration proof
- Intrinsically safe versions (ATEX)



Description

With sheathed thermocouples, the flexible part of the probe is a mineral insulated cable, often called the sheathed cable. This cable consists of a stainless steel outer sheath, in which the inner conductors are encased for insulation and compressed into a highly compacted ceramic mass. The outer sheath is made of stainless steel or Ni-alloy (-with precious metal thermocouples it may also be platinum or a PtRh-alloy). The inner conductors are welded together at the measuring end of the sheathed cable to form the 'thermocouple'.

In designs where the measuring element is not insulated the sheath is also welded to the thermocouple. Connector cables are connected to the other end of the sheathed cable, and the sheathed cable is hermetically sealed with a sealing compound. The connector wires form the basis for the electrical interface, with cable, a connector or a terminal block then attached to these connector wires.

WIKA Data Sheet TE 65.40 · 08/2005

Sheathed Resistance ThermometersMCable Resistance ThermometersMCable ThermocouplesM

Model TR7X0see data sheet TE 60.40Model TR101see data sheet TE 60.05Model TC101see data sheet TE 65.05

Sheathed Thermocouples, Model Series TC7X0

Due to their flexibility and the small diameters in which they are available, sheathed thermocouples can be used in locations that are not easily accessible.

Intrinsically safe designs are also available for applications in hazardous areas. The models in the TC7X0 series are provided with a type-examination certificate for "intrinsically safe" protection according to directive 94/9/EC (ATEX). Manufacturer's Declarations in accordance with EN 50 020 are also available.

Optionally analogue or digital transmitters from the WIKA range can be fitted into the connection head of the TC750 or TC760.

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OBSOLETE

Sensor

Sensor type

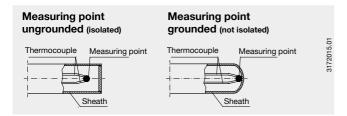
Туре	Recommended max. operating temperature
K (NiCr-Ni)	1200 °C
J (Fe-CuNi)	800 °C
E (NiCr-CuNi)	800 °C
T (Cu-CuNi)	400 °C
N (NiCrSi-NiSi)	1200 °C

In the case of type K there is a risk of blue mould forming between 850 °C and 950 °C . We recommend the use of a type N sensor, if the working temperature might be continuously within this range.

The application range of these thermometers is limited by the max. permissible temperature of the thermocouple as well as the max. temperature of the thermowell material.

Sheathed thermocouples $\geq \emptyset$ 3 mm are also available as duplex thermocouples.

The measuring point (hot junction) of the probe is supplied as ungrounded unless specified otherwise.



Sensor limiting error

A cold junction temperature of $0 \,^{\circ}$ C is taken as the basis for the definition of the sensor limiting error of thermocouples.

Туре К

Class	Temperature range	Limiting error
DIN EN 6	60 584 part 2	
1	-40 °C +375 °C	± 1.5 °C
1	+375 °C +1000 °C	± 0.0040 • t 1)
2	-40 °C +333 °C	± 2.5 °C
2	+333 °C +1200 °C	± 0.0075 • t 1)
ISA (ANS	SI) MC96.1-1982	
Standa	ard 0 °C + 1250 °C	\pm 2.2 °C $$ or $^{2)}$ \pm 0.75 % $$
Specia	l 0°C +1250°C	\pm 1.1 °C $$ or $^{2)}$ \pm 0.4 %

Type J

Class	Temperatu	re range	Limiting error			
DIN EN 60 584 part 2						
1	-40 °C	+375 °C	± 1.5 °C			
1	+375 °C	+750 °C	± 0.0040 • t ¹⁾			
2	-40 °C	+ 333 °C	± 2.5 °C			
2	+333 °C	+750 °C	± 0.0075 • t ¹⁾			
ISA (ANS	I) MC96.1-198	32				
Standa	rd 0 °C	+750 °C	\pm 2.2 °C or $^{\scriptscriptstyle 2)}$ \pm 0.75 %			
Specia	I 0°C	+750 °C	\pm 1.1 °C or $^{2)}$ \pm 0.4 %			

Туре Е

Class	Temperatur	e range	Limiting error
DIN EN	60 584 part 2		
1	-40 °C	+375 °C	± 1.5 °C
1	+375 °C	+ 800 °C	± 0.0040 • t ¹⁾
2	-40 °C	+333 °C	± 2.5 °C
2	+333 °C	+900 °C	± 0.0075 • t 1)

Туре Т

Class	Temperatur	e range	Limiting error
DIN EN	l 60 584 part 2		
1	-40 °C	+125 °C	± 0.5 °C
1	+ 125 °C	+ 350 °C	± 0.0040 • t 1)
2	-40 °C	+133 °C	± 1.0 °C
2	+133 °C	+ 350 °C	± 0.0075 • t 1)

Туре N

Class	Temperature range	Limiting error
DIN EN	60 584 part 2	
1	- 40 °C + 375 °C	± 1.5 °C
1	+375 °C +1000 °C	± 0.0040 • t ¹⁾
2	- 40 °C + 333 °C	± 2.5 °C
2	+333 °C +1200 °C	± 0.0075 • t 1)

1) |t| is the value of the temperature in °C without consideration of the sign 2) Whichever is larger.

Limiting error with selected temperatures in °C for thermocouples type K and type J

Temperature (ITS 90) °C	Limiting error DIN EN Class 1 °C	l 60 584 Class 2 °C
0	± 1.5	± 2.5
100	± 1.5	± 2.5
200	± 1.5	± 2.5
300	± 1.5	± 2.5
400	± 1.6	± 3
500	± 2	± 3.75
600	± 2.4	± 4.5
700	± 2.8	± 5.25
800	± 3.2	± 6
900	± 3.6	± 6.75
1000	± 4	± 7.5
1100	± 4.4	± 8.25
1200	± 4.8	± 9

Precious metal thermocouples Types R, S and B on request



Designs

Depending on their type of electrical connection, sheathed thermocouples are subdivided into the following designs:

- Model TC720 with conductor wires
- Model TC730 with cable
- Model TC740 with connector
- Model TC750 with connection head
- Model TC760 with connection head and fixed process connection

Upon request custom designs for special requirements are also available.

Sheath

The sheath is flexible. The admissible bending radius is three or five times the value of the sheath diameter. These sheathed probes can be subjected to up to approx. 1200 °C.

Please note:

The flexibility of the sheathed thermocouple has to be taken into account, especially when the flow rates are relatively high. Versions in which the process connection is not located directly at the connection head - where a transmitter might be built-in - are to be considered critical in applications where vibratory stresses occur.

Sheath diameter

0.5 mm, 1.0 mm, 1.5 mm, 3.0 mm, 4.5 mm, 6.0 mm or 8.0 mm (with mounted tube), other on request

Sheath material

Ni-alloy 2.4816 (Inconel 600) up to 1200 °C (air), standard material for applications which require specific corrosion resistance properties under exposure to high temperatures, resistant to induced stress corrosion cracking and pitting in media containing chloride, resistant to corrosion caused by aqueous ammonia in all temperatures and concentrations,

highly resistant to halogens, chlorine, hydrogen chloride

stainless steel

up to 850 °C (air),

good corrosion resistance to aggressive media as well as steam and flue gases in chemical media

other on request

Nominal length

Short probes with cable are available in a rigid design, e.g.: model TC 101 (nominal length max. 150 mm), see data sheet TE 65.05.



Product summary and dimensions in mm

TC720 with conductor wires

These models with conductor wires are intended for installation into existing housings. The flexible sheath is inserted into the housing to the actual measuring point.

Lead length 100 mm, other length on request, Thermo wire \emptyset 0.5 mm, type of compensating wire according to type of sensor, PTFE insulated, number of conductor wire couples according to number of sensors, bare wire ends, other versions on request

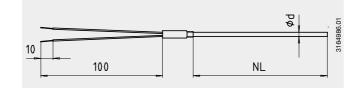
TC730 with cable

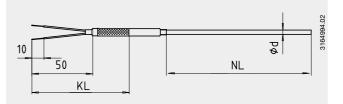
Cable and sheath are firmly connected to each other. Cable probes are easily replaceable and can be inserted or screwed into holes in machine parts without thermowells, for example. Usually these probes have no process connection as they are inserted into a hole. Retention is by means of threads, union nuts etc. which are available from WIKA.

Cable length to customer specification

Compensating cable, lead 0,22 mm², type of compensating cable according to type of sensor, number of cores according to number of sensors, bare wire ends, insulation (material / max. ambient temperature):

PVC	105 °C
Silicon	200 °C
PTFE	250 °C
glass filament	400 °C
other versions on	request

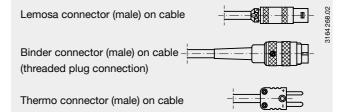




Optional: connector (male) fitted to cable end

- Lemosa size 1 S for cable diameters up to 5.5 mm
- Lemosa size 2 S for cable diameters up to 8 mm
- Binder connector
- Thermo connector

max. temperature at connector 85 °C, mating connectors are available, other versions on request



TC740 with connector (female) fitted on probe

Designs with connector are used in cases where the electrical connection to the probe has to be easily made and unmade via a plug.

Connector:

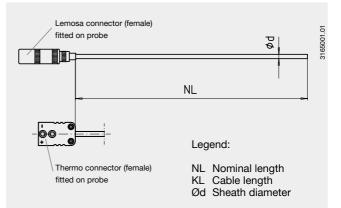
- Lemosa size 1 S for sheath diameters 2, 3 and 6 mm
- Lemosa size 2 S for sheath diameters 3 and 6 mm
- Thermo connector

max. temperature at connector 85 °C (special versions up to max. 250 °C),

mating connectors are available,

other versions on request

Otherwise same as model TC730.



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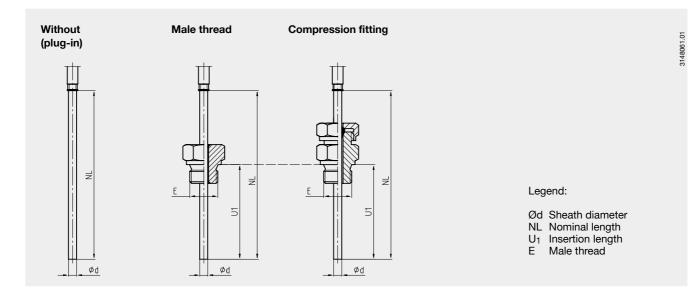
TC750 with connection head

The electrical connection is provided by a connection head.

Connection head: Model JS, JVA or BS Description of connection heads see page 7, top

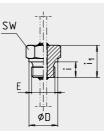


Process connections of Models TC720, TC730, TC740 and TC750



Male thread

Firmly connected to the sheath Insertion length U₁: to customer specification Max. insertion length: nominal length minus approx. 20 mm (Model TC750: nominal length minus approx. 25 mm) Material: stainless steel, other on request



3163075.02



Compression fitting

Allows simple adaptation to the required insertion length at the installation point

Max. insertion length: nominal length minus approx. 25 mm (Model TC750: nominal length minus approx. 30 mm)

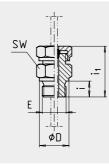
Material: stainless steel Sealing ring material: stainless steel or PTFE

Sealing rings of stainless steel can be adjusted once, after unscrewing, sliding along the sheath is no longer possible.

- Max. temperature at process connection 500 °C

Sealing rings of PTFE can be adjusted several times, after unscrewing, repeated sliding along the sheath is still possible.

- Max. temperature at process connection 150 °C



For sheathed thermocouples with \emptyset 2 mm only PTFE sealing rings are permissible.



Dimensions of process connections Model TC720, TC730, TC740 and TC750

Process connection	Male thread	Sheath in mm	Dimensions in mm				
	E	Ød	i	i1	ØD	SW (flats)	
Male thread	G ½ B	3, 4.5, 6 or 8 ¹⁾	14	29	26	27	
	G ¼ B	3, 4.5 or 6	12	24	18	19	
	M 8 x 1,0	1.0, 1.5, 3 or 4.5	8	14	12	12	
Compression fitting	G ½ B	3, 4.5, 6 or 8	14	34	26	27	
	G ¼ B	3, 4.5 or 6	12	32	18	19	
	M 8 x 1,0 2)	1.5 or 3	8	27	12	12	

1) With Ød = 8 mm sheath diameter 6 mm with mounted tube is used

Sealing ring: PTFE

TC760 with connection head and fixed process connection

This design is characterised by a fixed process connection (male thread) with a welded-in sheathed probe. Therefore, in this case the insertion length is of importance in lieu of the nominal length for variable insertion dimensions. The male thread is usually positioned directly at the connection head. Insertion length: to customer specification

Material: Ni alloy 2.4816 (Inconel 600)

stainless steel,

other on request

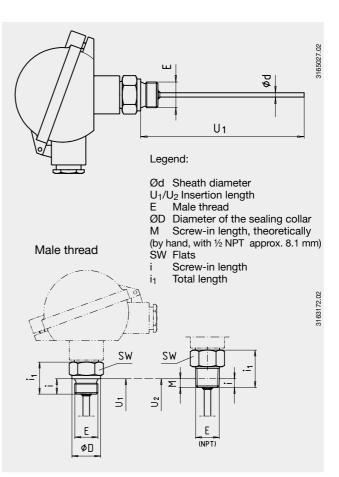
Permissible ambient temperature at the connection head:

120 °C for designs without transmitter, 85 °C for designs with transmitter

Description of connection heads see page 7, top

Option

Built-in transmitter, see page 7



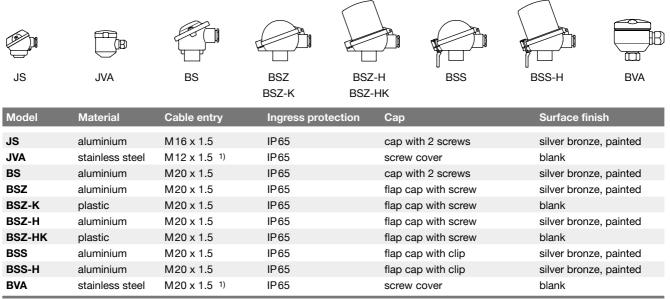
Dimensions of process connections Model TC760

Process connection	Male thread	Sheath in mm	Dimensions in mm			
	E	Ød	i	İ1	ØD	SW (flats)
Male thread	G ¼ B	3, 4.5 or 6	12	24	18	19
	G ½ B	3, 4.5, 6 or 8 ¹⁾	14	29	26	27
	1⁄2 NPT	3, 4.5, 6 or 8 ¹⁾	ca. 8.1	34	-	22
	M 20 x 1.5	3, 4.5, 6 or 8 ¹)	14	29	25	27

1) With Ød = 8 mm sheath diameter 6 mm with mounted tube is used



Connection head



1) Cable gland, metal

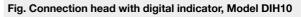
Connection head with digital indicator (option)

(only Model TC760)

As an optional alternative to the standard connection head the thermometer may be equipped with the digital indicator DIH10. The connection head used in this case is similar to the head model BSZ-H. For operation a 4 ... 20 mA transmitter is necessary, which is mounted to the measuring insert. The scale range of the indicator is configured to the same measuring range as the transmitter.

Intrinsically safe versions, explosion protection type EEx (i), are also available.





Transmitter (option)

(not possible with connection head Model JS and JVA)

With model TC750 and model TC760 a transmitter can be mounted directly into the connection head form B. Generally two mounting variants are possible:

- o mounted instead of terminal block
- mounted within the cap of the connection head
- mounting not possible

Mounting of two transmitters on request.

Connection head	Transı T12	mitter T19	T32	T42	T5350
BS	-	0	-	-	0
BSZ / BSZ-K	0	0	0	0	0
BSZ-H / BSZ-HK	•	•	•	•	•
BSS	0	0	0	0	0
BSS-H	•	•	•	•	•
BVA	0	0	0	0	0

Model	Description	Explosion protection	Data sheet
T19	Analogue transmitter, configurable	without	TE 19.01
T12	Digital transmitter, PC configurable	optional	TE 12.01
T32	Digital transmitter, HART protocol	optional	TE 32.01
T42	Digital transmitter, PROFIBUS PA	optional	TE 42.01
T5350	Digital transmitter FOUNDATION Fieldbus and PROFIBUS PA	standard	TE 53.01



Explosion protection (option)

Thermocouples of the Model series TC7X0 are available with a type-examination certificate for "intrinsically safe" ignition protection (TÜV 02 ATEX 1793 X). These thermometers comply with the requirements of directive 94/9/EC (ATEX), EEx-i, for gases and dust.

Manufacturer's Declarations in accordance with EN 50 020 are also available.

The classification / suitability of the instrument (permissible power P $_{max.}$, minimum neck length and permissible ambient temperature) for the respective category can be seen on the type-examination certificate and in the operating instructions.

The responsibility for using suitable thermowells rests with the user.

The permissible ambient temperature ranges of the built-in transmitters can be taken from the corresponding transmitter approval.

Note:

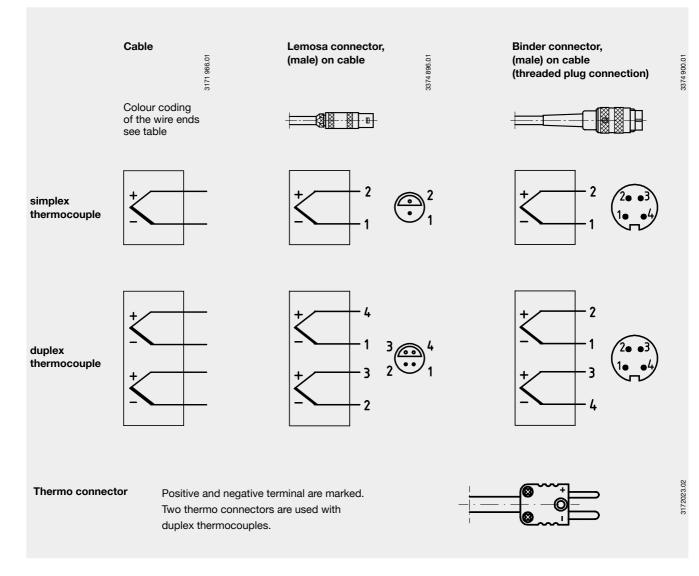
When mounting thermometers with flying leads, the mounting personnel must ensure that the connection is carried out properly and in compliance with the appropriate regulations.

When the flying leads of the thermometer are within the hazardous area, suitable adapters / connectors are to be used.

Flying leads are to be connected outside of the hazardous area or, when operated in explosive atmospheres caused by dust, within a case which is certified according to the 94/9/EC and EN 50 281-1-1 directives and provides an ingress protection of at least IP 65. A minimum air and creepage distance of 2 mm has to be ensured.



Electrical connection Models TC720, TC730 and TC740

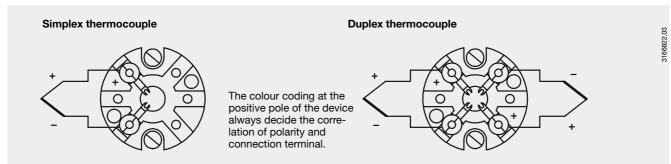


Other connector plugs and other PIN assignments on request

Colour code of cable

Type of sensor	Standard	Positive terminal	Negative terminal
К	DIN EN 60584	green	white
J	DIN EN 60 584	black	white
E	DIN EN 60 584	violet	white
т	DIN EN 60 584	brown	white
Ν	DIN EN 60 584	pink	white

Electrical connection Models TC750 and TC760





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10 ? other conductor wire please state as additional to Lead length 100 100 mm length in mm, e.g. 080 for 80 mm 11 ??? longer than 999 mm please state as additional to Additional order info YES NO 12 T Z quality certificates see price 13 T Z additional text Please state as clearly understandable to				Conductor	
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YES NO 12 T Z quality certificates see price 13 T Z additional text Please state as clearly understandable text		·			
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T Z additional text Please state as clearly understandable to			YES		
	12			Z quality certificates	see price list
	13		Т	Z additional text	Please state as clearly understandable text!
 Please observe the operating instructions and the type-examination certificate. 			0.5		

1	23	4	5	6	7	8	9	10	11	12 13
C720 -	-		-							-



Field	No.	Code	Features	
			Explosion protection	
		Z Y	without	
1		Н	according to directive 94/9/EC (ATEX) EEx-i G for gases ¹⁾ according to directive 94/9/EC (ATEX) EEx-i GD for gases and dust ¹⁾	
1		п	Type and number of sensors	
		A	1 x type K (NiCr-Ni)	
		B	2 x type K (NiCr-Ni)	
		C	1 x type I (Fe-CuNi)	
		D	2 x type J (Fe-CuNi)	
2		?	other	please state as additional text
-		· ·	Sensor limiting error	
		2	class 2 per DIN EN 60 584	
		1	class 1 per DIN EN 60 584	
		8	ISA (ANSI) standard to MC96.1-1982	
		9	ISA (ANSI) special to MC96.1-1982	
3		?	other	please state as additional text
Ũ		•	Measuring point	
		1	insulated	
4		2	not insulated	explosion protection on inquiry
-			Process connection	
		ZZ	without	
		GD	G 1/2 B	
		GB	G 1/4 B	
		MA	M 8 x 1.0	
5		??	other	please state as additional text
			Design of process connection	
		Z	without	
		1	compression fitting stainless steel, sealing ring PTFE	
		2	compression fitting stainless steel, sealing ring stainless steel	not with sheath diameter 0.5, 1.0 and 1.5 mm
		G	male thread	
6		?	other	please state as additional text
			Sheath material	
		<u>A</u>	Ni alloy 2.4816 (Inconel 600)	not with sensor type J
-		T	stainless steel	
7		?	other	please state as additional text
		1	Sheath diameter	anly without avalagian protection
		2	0.5 mm, simplex sensor 1.0 mm, simplex sensor	only without explosion protection only without explosion protection
		3	1.5 mm, simplex sensor	only without explosion protection
		4	3.0 mm	
		5	4.5 mm	
		6	6.0 mm	
		7	8.0 mm	
8		?	other	please state as additional text
		•	Nominal length	i i i i i i i i i i i i i i i i i i i
			length in mm, e.g. 0850 for 850 mm	
9		????	longer than 9999 mm	please state as additional text
			Cable	
		Р	PVC, max. temperature at the cable connection 100 °C	
		S	Silicon, max. temperature at the cable connection 100 °C	
		T	PTFE, max. temperature at the cable connection 100 °C	
		G	glass filament, max. temperature at the cable connection 100 °C	
10		?	other Cable longth	please state as additional text
			Cable length length in mm, e.g. 0850 for 850 mm	
11		????	longer than 9999 mm	please state as additional text
			Connector, fitted on cable	
		Z	without	
		6	Lemosa size 1 S (male), max. temperature at connector 85 °C	
		7	Lemosa size 2 S (male), max. temperature at connector 85 °C	
		8	Binder connector (male, threaded/plug connection), max. temperature a	at connector 85 °C
12		?	other	please state as additional text
	· · · ·			
			onal order info	
		YES	NO	
13		Т	Z quality certificates	see price list
14		Т	Z additional text	Please state as clearly understandable text!
		1) Plea	se observe the operating instructions and the type-examination certificate.	
Orde	r code:			
	1		2 3 4 5 6 7 8 9 10 11	1 12 13 14
	TC73	0-]		
		-		
الملم ۸	tional tarr	۰.		
Auul	tional tex	ι.		



Field I	No.	Code	Features	
			Explosion protection	
		Z	without 1	
		Y	according to directive 94/9/EC (ATEX) EEx-i G for gases 1)	1)
1		н	according to directive 94/9/EC (ATEX) EEx-i GD for gases and dust	1)
			Type and number of sensors	
		Α	1 x type K (NiCr-Ni)	
		В	2 x type K (NiCr-Ni)	
		С	1 x type J (Fe-CuNi)	
		D	2 x type J (Fe-CuNi)	
2		?	other	please state as additional text
	·		Sensor limiting error	,
		2	class 2 per DIN EN 60 584	
		1	class 1 per DIN EN 60 584	
		8	ISA (ANSI) standard to MC96.1-1982	
		-		
		9	ISA (ANSI) special to MC96.1-1982	
3		?	other	please state as additional text
			Measuring point	
		1	insulated	
4		2	not insulated	explosion protection on inquiry
			Process connection	
		ZZ	without	
		GD	G 1/2 B	
		GB	G 1/4 B	
		MA	M 8 x 1.0	
5		??	other	please state as additional text
·	I		Design of process connection	
		Z	without	
		1		
		2	compression fitting stainless steel, sealing ring PTFE compression fitting stainless steel, sealing ring stainless steel	not with sheath diameter 0.5, 1.0 and 1.5 mm
~		G	male thread	
6		G ?	other	please state as additional text
6		?	other Sheath material	
6		? A	other Sheath material Ni alloy 2.4816 (Inconel 600)	please state as additional text not with sensor type J
6		? 	other Sheath material Ni alloy 2.4816 (Inconel 600) stainless steel	not with sensor type J
6 7		? A	other Sheath material Ni alloy 2.4816 (Inconel 600) stainless steel other	
6 7		? A T ?	other Sheath material Ni alloy 2.4816 (Inconel 600) stainless steel other Sheath diameter	not with sensor type J please state as additional text
6 7		? 	other Sheath material Ni alloy 2.4816 (Inconel 600) stainless steel other Sheath diameter 0.5 mm, simplex sensor	not with sensor type J please state as additional text only without explosion protection
6 7		? A T ?	other Sheath material Ni alloy 2.4816 (Inconel 600) stainless steel other Sheath diameter	not with sensor type J please state as additional text
6 7		? A T ?	other Sheath material Ni alloy 2.4816 (Inconel 600) stainless steel other Sheath diameter 0.5 mm, simplex sensor	not with sensor type J please state as additional text only without explosion protection
6 7		? A T ? 1 2	other Sheath material Ni alloy 2.4816 (Inconel 600) stainless steel other Sheath diameter 0.5 mm, simplex sensor 1.0 mm, simplex sensor	not with sensor type J please state as additional text only without explosion protection only without explosion protection
6 7		? A T ? 1 2 3	other Sheath material Ni alloy 2.4816 (Inconel 600) stainless steel other Sheath diameter 0.5 mm, simplex sensor 1.0 mm, simplex sensor 1.5 mm, simplex sensor	not with sensor type J please state as additional text only without explosion protection only without explosion protection
6 7		? A T ? 1 2 3 4	other Sheath material Ni alloy 2.4816 (Inconel 600) stainless steel other Sheath diameter 0.5 mm, simplex sensor 1.0 mm, simplex sensor 1.5 mm, simplex sensor 3.0 mm	not with sensor type J please state as additional text only without explosion protection only without explosion protection
6 7		? A T ? 1 2 3 4 5 6	other Sheath material Ni alloy 2.4816 (Inconel 600) Stainless steel other Sheath diameter 0.5 mm, simplex sensor 1.0 mm, simplex sensor 1.5 mm, simplex sensor 3.0 mm 4.5 mm 6.0 mm	not with sensor type J please state as additional text only without explosion protection only without explosion protection
6 7 8		? A T ? 1 2 3 4 5	other Sheath material Ni alloy 2.4816 (Inconel 600) stainless steel other Sheath diameter 0.5 mm, simplex sensor 1.0 mm, simplex sensor 1.5 mm, simplex sensor 3.0 mm 4.5 mm 6.0 mm 8.0 mm	not with sensor type J please state as additional text only without explosion protection only without explosion protection only without explosion protection
7		? A T ?	other Sheath material Ni alloy 2.4816 (Inconel 600) stainless steel other Sheath diameter 0.5 mm, simplex sensor 1.0 mm, simplex sensor 1.5 mm, simplex sensor 3.0 mm 4.5 mm 6.0 mm 8.0 mm other	not with sensor type J please state as additional text only without explosion protection only without explosion protection
7		? A T ?	other Sheath material Ni alloy 2.4816 (Inconel 600) stainless steel other Sheath diameter 0.5 mm, simplex sensor 1.0 mm, simplex sensor 1.5 mm, simplex sensor 3.0 mm 4.5 mm 6.0 mm 8.0 mm other Nominal length	not with sensor type J please state as additional text only without explosion protection only without explosion protection only without explosion protection
7		? A T ? 1 2 3 4 5 6 7 ?	other Sheath material Ni alloy 2.4816 (Inconel 600) stainless steel other Sheath diameter 0.5 mm, simplex sensor 1.0 mm, simplex sensor 1.5 mm, simplex sensor 3.0 mm 4.5 mm 6.0 mm 8.0 mm other Nominal length length in mm, e.g. 0850 for 850 mm	not with sensor type J please state as additional text only without explosion protection only without explosion protection only without explosion protection please state as additional text
7		? A T ?	other Sheath material Ni alloy 2.4816 (Inconel 600) stainless steel other Sheath diameter 0.5 mm, simplex sensor 1.0 mm, simplex sensor 1.5 mm, simplex sensor 3.0 mm 4.5 mm 6.0 mm 8.0 mm other Nominal length length in mm, e.g. 0850 for 850 mm longer than 9999 mm	not with sensor type J please state as additional text only without explosion protection only without explosion protection only without explosion protection
7		? A T ? 1 2 3 4 5 6 7 ? ? ? ?????	other Sheath material Ni alloy 2.4816 (Inconel 600) stainless steel other Sheath diameter 0.5 mm, simplex sensor 1.0 mm, simplex sensor 1.0 mm, simplex sensor 3.0 mm 4.5 mm 6.0 mm 8.0 mm other Nominal length length in mm, e.g. 0850 for 850 mm longer than 9999 mm Connector	not with sensor type J please state as additional text only without explosion protection only without explosion protection only without explosion protection please state as additional text
7		? A T ? 3 4 5 6 7 ? ? ?????	other Sheath material Ni alloy 2.4816 (Inconel 600) stainless steel other Sheath diameter 0.5 mm, simplex sensor 1.0 mm, simplex sensor 1.5 mm, simplex sensor 3.0 mm 4.5 mm 6.0 mm 8.0 mm other Nominal length length in mm, e.g. 0850 for 850 mm longer than 9999 mm Connector Lemosa size 1 S (female), max. temperature at connector 85 °C	not with sensor type J please state as additional text only without explosion protection only without explosion protection only without explosion protection please state as additional text
7		? A T ? 1 2 3 4 5 6 7 ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ?	other Sheath material Ni alloy 2.4816 (Inconel 600) stainless steel other Sheath diameter 0.5 mm, simplex sensor 1.0 mm, simplex sensor 1.5 mm, simplex sensor 3.0 mm 4.5 mm 6.0 mm 8.0 mm other Nominal length length in mm, e.g. 0850 for 850 mm longer than 9999 mm Connector Lemosa size 1 S (female), max. temperature at connector 85 °C Lemosa size 2 S (female), max. temperature at connector 85 °C	not with sensor type J please state as additional text only without explosion protection only without explosion protection only without explosion protection please state as additional text
7 8 9		? A T ? 1 2 3 4 5 6 7 ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ?	other Sheath material Ni alloy 2.4816 (Inconel 600) stainless steel other Sheath diameter 0.5 mm, simplex sensor 1.0 mm, simplex sensor 1.0 mm, simplex sensor 3.0 mm 4.5 mm 6.0 mm 8.0 mm other Nominal length length in mm, e.g. 0850 for 850 mm longer than 9999 mm Connector Lemosa size 1 S (female), max. temperature at connector 85 °C Thermo connector (female), max. temperature at connector 85 °C	not with sensor type J please state as additional text only without explosion protection only without explosion protection only without explosion protection please state as additional text please state as additional text
7		? A T ? 1 2 3 4 5 6 7 ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ?	other Sheath material Ni alloy 2.4816 (Inconel 600) stainless steel other Sheath diameter 0.5 mm, simplex sensor 1.0 mm, simplex sensor 1.5 mm, simplex sensor 3.0 mm 4.5 mm 6.0 mm 8.0 mm other Nominal length length in mm, e.g. 0850 for 850 mm longer than 9999 mm Connector Lemosa size 1 S (female), max. temperature at connector 85 °C Lemosa size 2 S (female), max. temperature at connector 85 °C	not with sensor type J please state as additional text only without explosion protection only without explosion protection only without explosion protection please state as additional text
7 8 9		? A T ? 3 4 5 6 7 ? ? ? ? ? ? ? ? ? ? ? ? ? ? ?	other Sheath material Ni alloy 2.4816 (Inconel 600) stainless steel other Sheath diameter 0.5 mm, simplex sensor 1.0 mm, simplex sensor 1.5 mm, simplex sensor 3.0 mm 4.5 mm 6.0 mm 8.0 mm other Nominal length length in mm, e.g. 0850 for 850 mm longer than 9999 mm Connector Lemosa size 1 S (female), max. temperature at connector 85 °C Lemosa size 2 S (female), max. temperature at connector 85 °C Thermo connector (female), max. temperature at connector 85 °C Thermo connector (female), max. temperature at connector 85 °C	not with sensor type J please state as additional text only without explosion protection only without explosion protection only without explosion protection please state as additional text please state as additional text
7 8 9		? A T ? 3 4 5 6 7 ? ? ? ? ? ? ? ? ? ? ? ? ?	other Sheath material Ni alloy 2.4816 (Inconel 600) stainless steel other Sheath diameter 0.5 mm, simplex sensor 1.0 mm, simplex sensor 1.5 mm, simplex sensor 3.0 mm 4.5 mm 6.0 mm 8.0 mm other Nominal length length in mm, e.g. 0850 for 850 mm longer than 9999 mm Connector Lemosa size 1 S (female), max. temperature at connector 85 °C Lemosa size 2 S (female), max. temperature at connector 85 °C Thermo connector (female), max. temperature at connector 85 °C Thermo connector (female), max. temperature at connector 85 °C other nal order info	not with sensor type J please state as additional text only without explosion protection only without explosion protection only without explosion protection please state as additional text please state as additional text
7 8 9 10		? A T ? 3 4 5 6 7 ? ? ? ? ? ? ? ? ? ? ? ? ? ?	other Sheath material Ni alloy 2.4816 (Inconel 600) stainless steel other Sheath diameter 0.5 mm, simplex sensor 1.0 mm, simplex sensor 1.5 mm, simplex sensor 3.0 mm 4.5 mm 6.0 mm 8.0 mm other Nominal length length in mm, e.g. 0850 for 850 mm longer than 9999 mm Connector Lemosa size 1 S (female), max. temperature at connector 85 °C Thermo connector (female), max. temperature at connector 85 °C Thermo connector (female), max. temperature at connector 85 °C Thermo connector (female), max. temperature at connector 85 °C other nal order info NO	not with sensor type J please state as additional text only without explosion protection only without explosion protection only without explosion protection please state as additional text please state as additional text please state as additional text
7 8 9 10 11		? A T ? 3 4 5 6 7 ? ? ? ???? 1 2 ? ? ???? ? ? ???? ? ? ?	other Sheath material Ni alloy 2.4816 (Inconel 600) stainless steel other Sheath diameter 0.5 mm, simplex sensor 1.0 mm, simplex sensor 1.5 mm, simplex sensor 3.0 mm 4.5 mm 6.0 mm 8.0 mm other Nominal length length in mm, e.g. 0850 for 850 mm longer than 9999 mm Connector Lemosa size 1 S (female), max. temperature at connector 85 °C Lemosa size 2 S (female), max. temperature at connector 85 °C Thermo connector (female), max. temperature at connector 85 °C nal order info NO Z quality certificates	not with sensor type J please state as additional text only without explosion protection only without explosion protection only without explosion protection please state as additional text please state as additional text please state as additional text see price list
7 8 9 10		? A T ? 3 4 5 6 7 ? ? ? ? ? ? ? ? ? ? ? ? ? ?	other Sheath material Ni alloy 2.4816 (Inconel 600) stainless steel other Sheath diameter 0.5 mm, simplex sensor 1.0 mm, simplex sensor 1.5 mm, simplex sensor 3.0 mm 4.5 mm 6.0 mm 8.0 mm other Nominal length length in mm, e.g. 0850 for 850 mm longer than 9999 mm Connector Lemosa size 1 S (female), max. temperature at connector 85 °C Thermo connector (female), max. temperature at connector 85 °C Thermo connector (female), max. temperature at connector 85 °C Thermo connector (female), max. temperature at connector 85 °C other nal order info NO	not with sensor type J please state as additional text only without explosion protection only without explosion protection only without explosion protection please state as additional text please state as additional text please state as additional text

1) Please observe the operating instructions and the type-examination certificate.

Order code:

	1	2	3	4	5		6	7	8	9	10	11 12
TC740 -	-				-]-						-

Additional text:



Field I	No.	Code	Features	
			F	
			Explosion protection	
		Z	without	1)
		Y	according to directive 94/9/EC (ATEX) EEx-i G for gases	·/
1		н	according to directive 94/9/EC (ATEX) EEx-i GD for gases	s and dust '
			Type and number of sensors	
		A	1 x type K (NiCr-Ni)	
		В	2 x type K (NiCr-Ni)	
		С	1 x type J (Fe-CuNi)	
_		D	2 x type J (Fe-CuNi)	
2		?	other	please state as additional text
			Sensor limiting error	
		2	class 2 per DIN EN 60 584	
		1	class 1 per DIN EN 60 584	
		8	ISA (ANSI) standard to MC96.1-1982	
		9	ISA (ANSI) special to MC96.1-1982	
3		?	other	please state as additional text
•			Measuring point	
		1	insulated	
4		2	not insulated	explosion protection on inquiry
-	I	-	Process connection	
		ZZ	without	
		GD	G 1/2 B	
		GB	G 1/4 B	
		-		
-		MA	M 8 x 1.0	
5		??	other	please state as additional text
			Design of process connection	
		Z	without	
		1	compression fitting stainless steel, sealing ring PTFE	
		2	compression fitting stainless steel, sealing ring stainless s	steel not with sheath diameter 0.5, 1.0 and 1.5 mm
		G	male thread	
6		?	other	please state as additional text
			Sheath material	
		Α	Ni alloy 2.4816 (Inconel 600)	not with sensor type J
		Т	stainless steel	
7		?	other	please state as additional text
			Sheath diameter	
		4	3.0 mm	
		5	4.5 mm	
		6	6.0 mm	
		7	8.0 mm	
8		?	other	please state as additional text
	· · · · ·		Nominal length	
			length in mm, e.g. 0850 for 850 mm	
9		????	longer than 9999 mm	please state as additional text
	LL	- I	Connection head	P
		9		plosion protection for dusts, transmitter installation not possible
		1	BS (aluminium)	<u> </u>
		V	JVA (stainless steel)	transmitter installation not possible
10		?	other	please state as additional text
			Cable entry to connection head	
		5	M16 x 1.5	connection head JS
		4	M20 x 1.5	connection head BS
		7	M12 x 1.5	connection head JVA
11		?	other	please state as additional text
	L	1 1	Transmitter	
		77		
40		ZZ	without	
12		TA	mounted on the measuring insert	
		Additio	nal order info	
		YES	NO	
13	[]	YES	NO Z quality certificates	see nrice list
13 14		YES T	NO Z quality certificates Z additional text	see price list Please state as clearly understandable text!

1) Please observe the operating instructions and the type-examination certificate.



Order code:



	d No.	Code	Features	
			Explosion protection	
		Z	without	1)
		Y	according to directive 94/9/EC (ATEX) EEx-i G for ga	
1		Н	according to directive 94/9/EC (ATEX) EEx-i GD for g	ases and dust 17
			Type and number of sensors	
		Α	1 x type K (NiCr-Ni)	
		В	2 x type K (NiCr-Ni) ²⁾	
		С	1 x type J (Fe-CuNi)	
		D	2 x type J (Fe-CuNi) ²⁾	
2		?	other	please state as additional text
			Sensor limiting error	
		2	class 2 per DIN EN 60 584	
		1	class 1 per DIN EN 60 584	
		8	ISA (ANSI) standard to MC96.1-1982	
		9	ISA (ANSI) special to MC96.1-1982	
3		?	other	please state as additional text
Ũ		•	Measuring point	
		1	insulated	
4		2		ovalosion protostion on inquin
4			not insulated Process connection	explosion protection on inquiry
		GD	G 1/2 B	
		GB	G 1/4 B	
		ND	½ NPT	
		MI	M 20 x 1.5	
5		??	other	please state as additional text
			Sheath material	
		Α	Ni alloy 2.4816 (Inconel 600)	not with sensor type J
		Т	stainless steel	
6		?	other	please state as additional text
			Sheath diameter	
		4	3.0 mm	
		5	4.5 mm	
		6	6.0 mm	
		7	8.0 mm	
7				
		?	other	please state as additional text
				please state as additional text
			Nominal length	please state as additional text
8		?	Nominal length length in mm, e.g. 0850 for 850 mm	
8			Nominal length length in mm, e.g. 0850 for 850 mm longer than 9999 mm	
8		?	Nominal length length in mm, e.g. 0850 for 850 mm longer than 9999 mm Connection head	please state as additional text
8		? ???? 1	Nominal length length in mm, e.g. 0850 for 850 mm longer than 9999 mm Connection head BS (aluminium)	please state as additional text
8		? ????? 1 2	Nominal length length in mm, e.g. 0850 for 850 mm longer than 9999 mm Connection head BS (aluminium) BSZ (aluminium)	please state as additional text only transmitter T19 as option possible
8		? ????? 1 2 3	Nominal length length in mm, e.g. 0850 for 850 mm longer than 9999 mm Connection head BS (aluminium) BSZ (aluminium) BSZ-H (aluminium)	please state as additional text only transmitter T19 as option possible
8		? ???? 1 2 3 T	Nominal length length in mm, e.g. 0850 for 850 mm longer than 9999 mm Connection head BS (aluminium) BSZ (aluminium) BSZ-H (aluminium) BSZ-K (plastic)	please state as additional text only transmitter T19 as option possible mounting of an optional transmitter in the cap possible
8		? ????? 1 2 3 T S	Nominal length length in mm, e.g. 0850 for 850 mm longer than 9999 mm Connection head BS (aluminium) BSZ (aluminium) BSZ-H (aluminium) BSZ-K (plastic) BSZ-HK (plastic)	please state as additional text only transmitter T19 as option possible mounting of an optional transmitter in the cap possible
8		? ????? 1 2 3 T S 4	Nominal length length in mm, e.g. 0850 for 850 mm longer than 9999 mm Connection head BS (aluminium) BSZ (aluminium) BSZ-H (aluminium) BSZ-K (plastic) BSZ-HK (plastic) BSS (aluminium)	please state as additional text only transmitter T19 as option possible mounting of an optional transmitter in the cap possible mounting of an optional transmitter in the cap possible
8		? ????? 1 2 3 T S	Nominal length length in mm, e.g. 0850 for 850 mm longer than 9999 mm Connection head BS (aluminium) BSZ (aluminium) BSZ-H (aluminium) BSZ-K (plastic) BSZ-HK (plastic) BSS (aluminium) BSS-H (aluminium)	please state as additional text only transmitter T19 as option possible mounting of an optional transmitter in the cap possible mounting of an optional transmitter in the cap possible mounting of an optional transmitter in the cap possible
8		? ????? 1 2 3 T S 4 5	Nominal length length in mm, e.g. 0850 for 850 mm longer than 9999 mm Connection head BS (aluminium) BSZ (aluminium) BSZ-H (aluminium) BSZ-K (plastic) BSZ-HK (plastic) BSS (aluminium) BSS-H (aluminium) BSS-H (aluminium)	please state as additional text only transmitter T19 as option possible mounting of an optional transmitter in the cap possible mounting of an optional transmitter in the cap possible mounting of an optional transmitter in the cap possible only without explosion protection,
8		? ????? 1 2 3 T S 4	Nominal length length in mm, e.g. 0850 for 850 mm longer than 9999 mm Connection head BS (aluminium) BSZ (aluminium) BSZ-H (aluminium) BSZ-K (plastic) BSS (aluminium) BSS-H (aluminium) BSS-H (aluminium) BSZ-H with digital temperature indicator DIH10 (set to transmitter range)	please state as additional text only transmitter T19 as option possible mounting of an optional transmitter in the cap possible mounting of an optional transmitter in the cap possible mounting of an optional transmitter in the cap possible only without explosion protection,
8		? ????? 1 2 3 T S 4 5 H	Nominal length length in mm, e.g. 0850 for 850 mm longer than 9999 mm Connection head BS (aluminium) BSZ-H (aluminium) BSZ-K (plastic) BSS (aluminium) BSS-H (plastic) BSS-H (aluminium) BSS-H (aluminium) BSZ-H with digital temperature indicator DIH10 (set to transmitter range) BSZ-H with digital temperature indicator DIH10-Ex	please state as additional text only transmitter T19 as option possible mounting of an optional transmitter in the cap possible mounting of an optional transmitter in the cap possible mounting of an optional transmitter in the cap possible only without explosion protection, for use a transmitter (420 mA) is required
8		? ????? 1 2 3 T S 4 5 H J	Nominal length length in mm, e.g. 0850 for 850 mm longer than 9999 mm Connection head BS (aluminium) BSZ-H (aluminium) BSZ-K (plastic) BSS (aluminium) BSS-H (plastic) BSS-H (aluminium) BSS-H (aluminium) BSZ-H with digital temperature indicator DIH10 (set to transmitter range) BSZ-H with digital temperature indicator DIH10-Ex (set to transmitter range)	please state as additional text only transmitter T19 as option possible mounting of an optional transmitter in the cap possible mounting of an optional transmitter in the cap possible mounting of an optional transmitter in the cap possible only without explosion protection, for use a transmitter (420 mA) is required an Ex-certified transmitter (420 mA) is required
8		? ????? 1 2 3 T S 4 5 H J 9	Nominal length length in mm, e.g. 0850 for 850 mm longer than 9999 mm Connection head BS (aluminium) BSZ-H (aluminium) BSZ-H (plastic) BSS (aluminium) BSS-H (plastic) BSS-H (aluminium) BSS-H (aluminium) BSZ-H with digital temperature indicator DIH10 (set to transmitter range) BSZ-H with digital temperature indicator DIH10-Ex (set to transmitter range) JS (aluminium) only without	please state as additional text only transmitter T19 as option possible mounting of an optional transmitter in the cap possible mounting of an optional transmitter in the cap possible mounting of an optional transmitter in the cap possible only without explosion protection, for use a transmitter (420 mA) is required an Ex-certified transmitter (420 mA) is required ut explosion protection for dusts, transmitter installation not possible
		? ????? 1 2 3 T S 4 5 H J 9 V	Nominal length length in mm, e.g. 0850 for 850 mm longer than 9999 mm Connection head BS (aluminium) BSZ-H (aluminium) BSZ-H (aluminium) BSZ-K (plastic) BSS (aluminium) BSS-H (aluminium) BSS-H (aluminium) BSZ-H with digital temperature indicator DIH10 (set to transmitter range) BSZ-H with digital temperature indicator DIH10-Ex (set to transmitter range) JS (aluminium) only withou JVA (stainless steel)	please state as additional text only transmitter T19 as option possible mounting of an optional transmitter in the cap possible mounting of an optional transmitter in the cap possible mounting of an optional transmitter in the cap possible only without explosion protection, for use a transmitter (420 mA) is required an Ex-certified transmitter (420 mA) is required ut explosion protection for dusts, transmitter installation not possible transmitter installation not possible
8		? ????? 1 2 3 T S 4 5 H J 9	Nominal length length in mm, e.g. 0850 for 850 mm longer than 9999 mm Connection head BS (aluminium) BSZ-H (aluminium) BSZ-K (plastic) BSS (aluminium) BSS-H (plastic) BSS-H (aluminium) BSS-H (aluminium) BSZ-H with digital temperature indicator DIH10 (set to transmitter range) BSZ-H with digital temperature indicator DIH10-Ex (set to transmitter range) JS (aluminium) only withou JVA (stainless steel) other	please state as additional text only transmitter T19 as option possible mounting of an optional transmitter in the cap possible mounting of an optional transmitter in the cap possible mounting of an optional transmitter in the cap possible only without explosion protection, for use a transmitter (420 mA) is required an Ex-certified transmitter (420 mA) is required ut explosion protection for dusts, transmitter installation not possible transmitter installation not possible
		? ????? 1 2 3 T S 4 5 H J 9 V ?	Nominal length length in mm, e.g. 0850 for 850 mm longer than 9999 mm Connection head BS (aluminium) BSZ-H (aluminium) BSZ-K (plastic) BSS (aluminium) BSS-H (plastic) BSS-H (aluminium) BSZ-Hwith digital temperature indicator DIH10 (set to transmitter range) BSZ-H with digital temperature indicator DIH10-Ex (set to transmitter range) JS (aluminium) only without only wi	please state as additional text only transmitter T19 as option possible mounting of an optional transmitter in the cap possible mounting of an optional transmitter in the cap possible mounting of an optional transmitter in the cap possible only without explosion protection, for use a transmitter (420 mA) is required an Ex-certified transmitter (420 mA) is required at explosion protection for dusts, transmitter installation not possible transmitter installation not possible please state as additional text
		? ????? 1 2 3 T S 4 5 H J 9 V ?	Nominal length length in mm, e.g. 0850 for 850 mm longer than 9999 mm Connection head BS (aluminium) BSZ-H (aluminium) BSZ-K (plastic) BSS (aluminium) BSS-H (plastic) BSS-H (aluminium) BSZ-H with digital temperature indicator DIH10 (set to transmitter range) BSZ-H with digital temperature indicator DIH10-Ex (set to transmitter range) JS (aluminium) only without JVA (stainless steel) other Cable entry to connection head M20 x 1.5	please state as additional text only transmitter T19 as option possible mounting of an optional transmitter in the cap possible mounting of an optional transmitter in the cap possible mounting of an optional transmitter in the cap possible only without explosion protection, for use a transmitter (420 mA) is required an Ex-certified transmitter (420 mA) is required ut explosion protection for dusts, transmitter installation not possible transmitter installation not possible
		? ????? 1 2 3 T S 4 5 H J 9 V ?	Nominal length length in mm, e.g. 0850 for 850 mm longer than 9999 mm Connection head BS (aluminium) BSZ-H (aluminium) BSZ-K (plastic) BSS (aluminium) BSS-H (plastic) BSS-H (aluminium) BSZ-Hwith digital temperature indicator DIH10 (set to transmitter range) BSZ-H with digital temperature indicator DIH10-Ex (set to transmitter range) JS (aluminium) only without only wi	please state as additional text only transmitter T19 as option possible mounting of an optional transmitter in the cap possible mounting of an optional transmitter in the cap possible mounting of an optional transmitter in the cap possible only without explosion protection, for use a transmitter (420 mA) is required an Ex-certified transmitter (420 mA) is required ut explosion protection for dusts, transmitter installation not possible transmitter installation not possible please state as additional text
		? ????? 1 2 3 T S 4 5 H J 9 V ?	Nominal length length in mm, e.g. 0850 for 850 mm longer than 9999 mm Connection head BS (aluminium) BSZ-H (aluminium) BSZ-K (plastic) BSS (aluminium) BSS-H (plastic) BSS-H (aluminium) BSZ-H with digital temperature indicator DIH10 (set to transmitter range) BSZ-H with digital temperature indicator DIH10-Ex (set to transmitter range) JS (aluminium) only without JVA (stainless steel) other Cable entry to connection head M20 x 1.5	please state as additional text only transmitter T19 as option possible mounting of an optional transmitter in the cap possible mounting of an optional transmitter in the cap possible only without explosion protection, for use a transmitter (420 mA) is required an Ex-certified transmitter (420 mA) is required an Ex-certified transmitter installation not possible transmitter installation not possible please state as additional text connection heads form B connection head JVA
		? ????? 1 2 3 T S 4 5 H J 9 V ? ?	Nominal length length in mm, e.g. 0850 for 850 mm longer than 9999 mm Connection head BS (aluminium) BSZ-H (aluminium) BSZ-H (plastic) BSS (aluminium) BSS-H (plastic) BSS-H (aluminium) BSZ-H with digital temperature indicator DIH10 (set to transmitter range) BSZ-H with digital temperature indicator DIH10-Ex (set to transmitter range) JS (aluminium) only without JVA (stainless steel) other Cable entry to connection head M20 x 1.5 M16 x 1.5	please state as additional text only transmitter T19 as option possible mounting of an optional transmitter in the cap possible mounting of an optional transmitter in the cap possible only without explosion protection, for use a transmitter (420 mA) is required an Ex-certified transmitter (420 mA) is required at explosion protection for dusts, transmitter installation not possible transmitter installation not possible please state as additional text connection heads form B connection head JS
9		? ????? 1 2 3 T S 4 5 H J 9 V ? ?	Nominal length length in mm, e.g. 0850 for 850 mm longer than 9999 mm Connection head BS (aluminium) BSZ-H (aluminium) BSZ-K (plastic) BSS (aluminium) BSS-H (aluminium) BSS-H (aluminium) BSZ-H with digital temperature indicator DIH10 (set to transmitter range) BSZ-H with digital temperature indicator DIH10-Ex (set to transmitter range) JS (aluminium) only without JVA (stainless steel) other Cable entry to connection head M20 x 1.5 M16 x 1.5 M12 x 1.5	please state as additional text only transmitter T19 as option possible mounting of an optional transmitter in the cap possible mounting of an optional transmitter in the cap possible only without explosion protection, for use a transmitter (420 mA) is required an Ex-certified transmitter (420 mA) is required texplosion protection for dusts, transmitter installation not possible transmitter installation not possible please state as additional text connection heads form B connection head JVA
9		? ????? 1 2 3 T S 4 5 H J 9 V ? ?	Nominal length length in mm, e.g. 0850 for 850 mm longer than 9999 mm Connection head BS (aluminium) BSZ-H (aluminium) BSZ-H (aluminium) BSZ-K (plastic) BSS (aluminium) BSS-H (aluminium) BSS-H (aluminium) BSZ-H with digital temperature indicator DIH10 (set to transmitter range) BSZ-H with digital temperature indicator DIH10-Ex (set to transmitter range) JS (aluminium) only without only	please state as additional text only transmitter T19 as option possible mounting of an optional transmitter in the cap possible mounting of an optional transmitter in the cap possible only without explosion protection, for use a transmitter (420 mA) is required an Ex-certified transmitter (420 mA) is required an Ex-certified transmitter installation not possible transmitter installation not possible please state as additional text connection heads form B connection head JVA
9		? ????? 1 2 3 T S 4 5 H J 9 V ? ?	Nominal length length in mm, e.g. 0850 for 850 mm longer than 9999 mm Connection head BS (aluminium) BSZ (aluminium) BSZ-H (aluminium) BSZ-K (plastic) BSS (aluminium) BSS-H (aluminium) BSS-H (aluminium) BSS-H (aluminium) BSZ-H with digital temperature indicator DIH10 (set to transmitter range) BSZ-H with digital temperature indicator DIH10-Ex (set to transmitter range) JS (aluminium) only without JVA (stainless steel) other Cable entry to connection head M20 x 1.5 M16 x 1.5 M12 x 1.5 other Transmitter Without Without	mounting of an optional transmitter in the cap possible mounting of an optional transmitter in the cap possible only without explosion protection, for use a transmitter (420 mA) is required an Ex-certified transmitter (420 mA) is required at explosion protection for dusts, transmitter installation not possible transmitter installation not possible please state as additional text connection heads form B connection head JVA
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Additional text:

Field No).	Code	Feature	S	
		Additio	nal orde	r info	
		YES	NO		
12		Т	Z	quality certificates	see price lis
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Specifications and dimensions given in this leaflet represent the state of engineering at the time of printing. Modifications may take place and materials specified may be replaced by others without prior notice.

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