



### ATEX applications

Valid for FlexTop™ 2202 / 2211 / 2212 / 2221

**⚠** The FlexProgrammer configuration unit must not be connected to the FlexTop within the hazardous area.

Configuration procedure:

- Disconnect mains from the 4...20 mA loop circuit
- Disconnect the product from the security within the hazardous area
- Bring the product to the safe area
- Connect the FlexProgrammer and perform the configuration
- Reinstall the product in the hazardous area
- Connect the power supply to the circuit

For FlexTop™ 2221/2222 only

Configuration for the FlexTop™ 2221/2222 can be made within the hazardous area by means of a handheld HART configurator, providing the precautions and guidelines described in the product's manual are observed.

The CombiTemp TFRx is ATEX approved with transmitter for Ex nA for zone 2.

The CombiTemp TFRx is ATEX approved without transmitter, i.e. with Pt100 output only, as simple apparatus as Ex ia for gas and dust.

### Compliance and approvals

EMC	EN 61000-6-2 EN 61000-6-3
ATEX	ATEX II 1G Ex ia IIC T4/T5 ATEX II 3G Ex nA IIC T5 Ex ia Simple apparatus, gas and dust
Hygiene	Regulation 1935/2004, 2023/2006 3-A (74-07)

### Field of application

CombiTemp™ TFRx is a temperature sensor, based on RTD technology, which is designed and produced to meet the requirements in food & beverage and pharmaceutical industry where hygienic connections are used.

CombiTemp™ TFRx comprises a series of basic elements which can be combined in various ways to a CombiTemp TFRx temperature sensor. The product offers great flexibility in respect to modification, service and maintenance.

The sensor can be made to feature a RTD output signal or with a built in FlexTop™ temperature transmitter types 2202, 2211, 2212, 2221 and 2222 with 4-20 mA output (for documentation of FlexTops, please see relevant data sheet or operating instructions).

### Field of application

This instrument is constructed and tested according to the current EU directives and packed in technically safe condition. In order to maintain this condition and to ensure safe operation, the user must follow the instructions and warnings given in this manual.

During the installation local standards have to be observed. Ignoring the warnings may lead to severe personal injury or substantial damage to property.

The product must be operated by trained staff. Correct and safe operation of this equipment is dependent on proper transport, storage, installation and operation.

All electrical wiring must conform to local standards and the connection must be made according to the connecting diagrams.

Before switching on power supply take care that there is no unwanted interaction with other equipment. Ensure that the supply voltage and the conditions in the environment comply with the specification of the device.

Before switching off the supply voltage check the possible effects on other equipment and the processing system.

To obtain the specified protection degree, use a compliant cable for electrical installation.

### **⚠ WARNING**

For electrical installations and commissioning of the explosion protected devices, the data given in the conformity certificate as also the local regulations for installation of electrical apparatus within explosion protected areas must be considered. The intrinsically safe versions can be mounted in the explosion hazardous area according to its specification and only connected to a certified intrinsically safe supply loop with the corresponding electrical values.

After mounting of the device - do check that the housing has a ground potential.

Note:

This product contains no replaceable parts. In case of malfunction the product must be returned to Baumer for repair.

## Mechanical specifications

Sensor tube and process connection	Stainless steel, AISI 316L (1.4404)
Housing	Stainless steel, AISI 304 (1.4301)
Mounting part	Stainless steel, AISI 304 (1.4301)
Electrical connection	Plug M12, 5-pin or 8-pin
	Material Stainless steel AISI 304 (1.4301)
	Cable gland M16 or M20
	Material Plastic or Stainless steel AISI 304 (1.4301)

## Environment

Process pressure	≤40 bar (60 bar)
Process temperature	-40 ... 250 °C -40 ... 400 °C with cooling neck
Ambient temperature	-50...160°C without transmitter / display -40...85°C with transmitter only -30...80°C with transmitter and display
Humidity	<98% RH, condensing
Protection class	IP67 / IP69K
Vibrations	GL, test 2 (sensor tube <200 mm)

## CombiView DFON display

Type	Graphically LCD
Front glass	Polycarbonate
Display modes	8 modes, programmable e.g. value, bar graph, analogue
Background colour	White, green, red - programmable
Measuring range	-9999...99999
Digit height	Max. 22 mm
Accuracy	0,1% @ ambient -10...70 °C 0,2% @ ambient -30 ... -10 / 70 ... 80 °C
Voltage drop	4V...6,5V - depending on background light
Output	2 configurable relay output, 60 Vp, 75 mA
Programming	Touch screen or FlexProgrammer 9701

Further information can be found in separate data sheet and/or operating instructions for the Baumer graphical display, CombiView DFON.

## Sensor element specifications (DIN/EN/IEC 60751)

Sensor element	Pt100
Accuracy (sensor element)	Class B $\pm(0,3 + 0,005 \times t)^\circ\text{C}$ Class 1/3 B $\pm 1/3 \times (0,3 + 0,005 \times t)^\circ\text{C}$ Class 1/6 B $\pm 1/6 \times (0,3 + 0,005 \times t)^\circ\text{C}$ Class A $\pm(0,15 + 0,002 \times t)^\circ\text{C}$
Single element	1 × Pt100
Double element	2 × Pt100
Connection	2-wire or 4-wire

## FlexTop® 2202 temperature transmitter

Input	Pt100
Output	4...20 mA
Accuracy	input < 0,25°C, span ≤ 250 °C - < 0,1% span, span > 250 °C output < 0,1% signal span (16 mA)
Range	-200...850°C
Minimum span	25°C
Voltage supply range	8...35 V DC
Programmability	By FlexProgrammer 9701

Further information can be found in separate data sheet and/or operating instructions for FlexTop 2202

## FlexTop® 2211 and 2221 temperature transmitter

Input	Pt100
Output	2211 4...20 mA 2221 4...20 mA / HART
Accuracy	input < 0,1°C output < 0,1% signal span (16 mA)
Range	-200...850°C
Minimum span	25°C
Voltage supply range	2211 6,5 ... 30 V DC 2221 8,0 ... 35 V DC
Programmability	By FlexProgrammer 9701 or HART modem

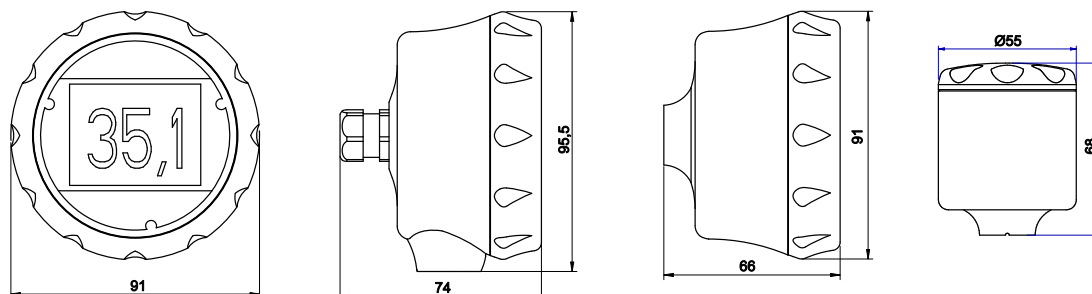
Further information can be found in separate data sheet and/or operating instructions for FlexTop 2211 or FlexTop 2221

## FlexTop® 2212 and 2222 temperature transmitter

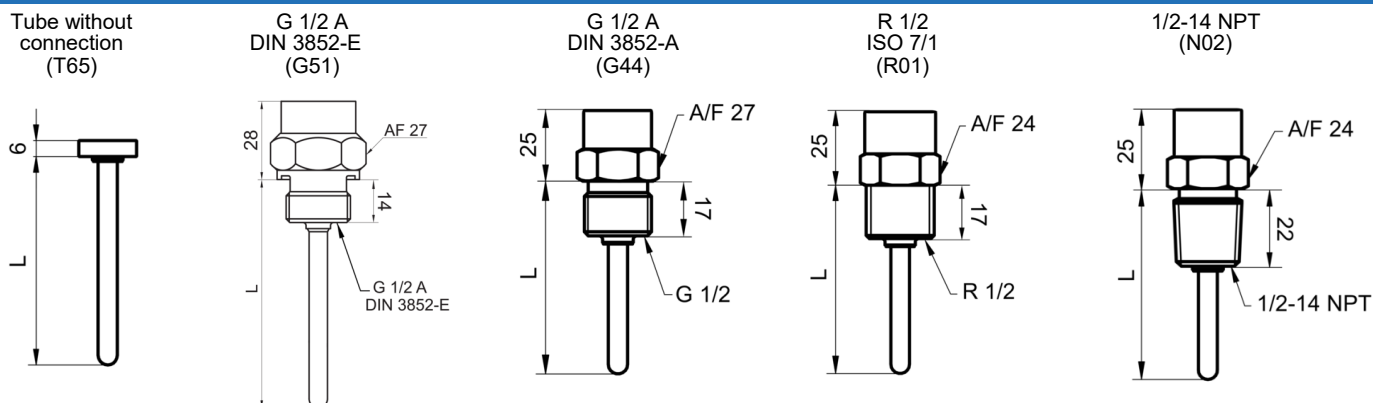
Input	Pt100
Output	2212 4...20 mA 2222 4...20 mA / HART
Accuracy	input < 0,06°C output < 0,025% signal span (16 mA)
Range	-200...850°C
Minimum span	10°C
Voltage supply range	7 ... 40 V DC
Programmability	Both: Touch screen or FlexProgram 2222: By HART® modem

Further information can be found in separate data sheet and/or operating instructions for FlexTop 2212 or FlexTop 2222

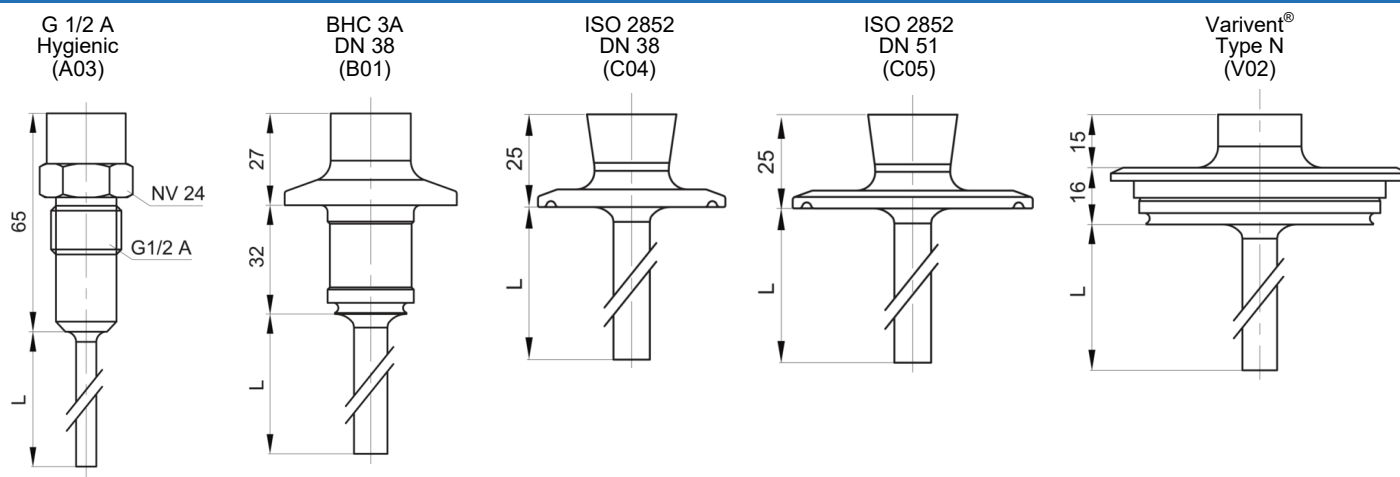
## Dimensions for TFRN/TFRH housing



## Dimensions for sensor tube and process connection (mm) for TFRN

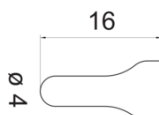


## Dimensions for sensor tube and process connection (mm) for TFRH

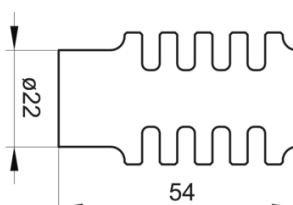


## Dimensions for other options (mm)

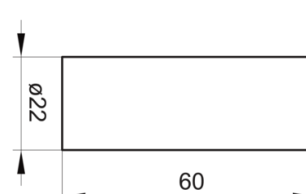
Fast response tip



Cooling neck

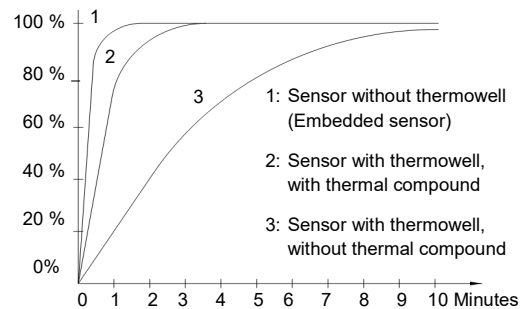


Spacer



## Response time, (time constant) T50

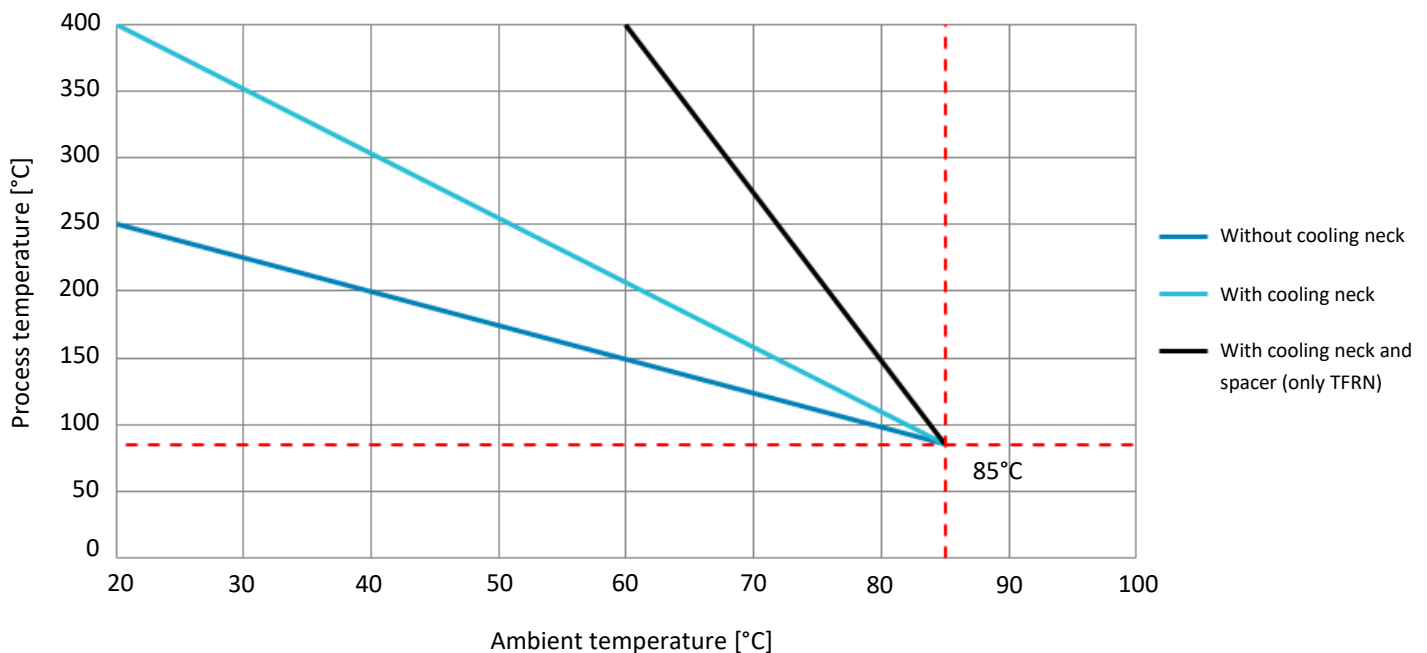
Sensor diameter	Sensor tip	Liquid 0.4 m/sec	Air 3 m/sec	Air 0 m/sec
Ø6 mm	Fast	<1,5 sec	<21,4 sec	<135,6 sec
	Standard	<6,1 sec	<27,2 sec	<137,8 sec
8 mm	Fast	<1,5 sec	<33,6 sec	<181,0 sec
	Standard	<7,6 sec	<47,7 sec	<200,9 sec



Note:  
When a thermowell is used, the time delay increases. The delay is the time duration for the sensor to reflect the correct temperature after a temperature change in the media.

## Process conditions

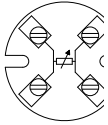
			Process pressure	Process temperature, standard (Tamb = 20 °C)	Process temperature, with cooling neck (Tamb = 20 °C)	Process temperature, with cooling neck and spacer (Tamb = 60 °C)
Process connection	BCID	Ordering key	[bar]	[°C]	[°C]	[°C]
<b>TFRN</b>						
Sleeve Ø 6	T65	10	-1 ... 40	-50 ... 250	-50 ... 400	-50 ... 400
G 1/2 A DIN 3852-E	G51	11	-1 ... 100	-50 ... 250	-50 ... 400	-50 ... 400
G 1/2 A DIN 3852-A	G44	12	-1 ... 100	-50 ... 250	-50 ... 400	-50 ... 400
R 1/2 ISO 7/1	R06	13	-1 ... 100	-50 ... 250	-50 ... 400	-50 ... 400
1/2-14 NPT	N02	30	-1 ... 100	-50 ... 250	-50 ... 400	-50 ... 400
<b>TFRH</b>						
G 1/2 A hygienic	A03	51	-1 ... 100	-50 ... 250	-50 ... 400	N/A
BHC 3A DN 38	B01	60	-1 ... 40	-50 ... 250	-50 ... 400	N/A
ISO 2852 DN38 (Tri-Clamp)	C04	65	-1 ... 40	-50 ... 250	-50 ... 400	N/A
ISO 2852 DN51 (Tri-Clamp)	C05	66	-1 ... 40	-50 ... 250	-50 ... 400	N/A
Varivent® Type N	V02	70	-1 ... 16	-50 ... 250	-50 ... 400	N/A



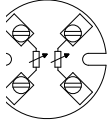
## Electrical connection Pt100

To connect with Pt100 output with ceramic terminal block

1 × Pt100



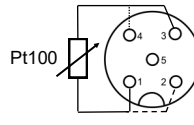
2 × Pt100



To connect Pt100 output with M12 connector

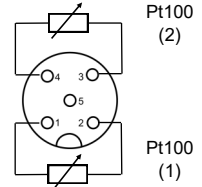
1 × Pt100

- 1 2-wire Pt100
- 2 3-wire Pt100
- 3 2-wire Pt100
- 4 4-wire Pt100
- 5 N.C.



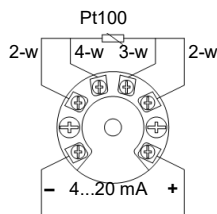
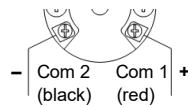
2 × Pt100

- 1 Pt100 (1)
- 2 Pt100 (1)
- 3 Pt100 (2)
- 4 Pt100 (2)
- 5 N.C.



## Electrical connection 4 ... 20 mA

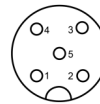
FlexTop® 22xx


To connect the  
FlexTop® 22xx

To connect the  
FlexProgrammer 9701


To connect with M12 connector

5-pin 4-20 mA

- 1 + supply, 4-20 mA
- 2 Common for relays
- 3 - supply, 4-20 mA
- 4 Relay 2
- 5 Relay 1



8-pin 4-20 mA

- 1 N.C.
- 2 + supply, 4-20 mA
- 3 Relay 21
- 4 Relay 22
- 5 Relay 11
- 6 Relay 12
- 7 - supply, 4-20 mA
- 8 N.C.

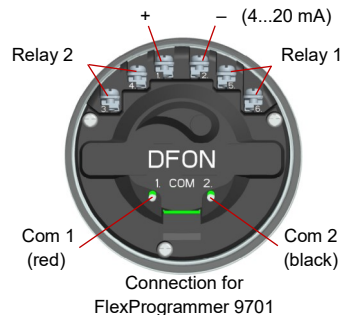


## Electrical connection DFON display

CombiView DFON display



Connection with 4 ... 20 mA loop



## Electrical connection with cable gland

Cable diameter	M16 plastic	5 ... 10 mm
	M16 stainless steel	5 ... 9 -
	M20 plastic	8 ... 13 -
	M20 stainless steel	11 ... 15 -

⚠ Check the maximum temperature for the cable used  
Be sure to fixate the instrument before tightening the cable gland.  
When using M16 stainless steel and M20 stainless steel the maximum tightening torque is 4 Nm.

⚠ When upgrading the TFRx without display with a DFON touch screen, remember to remove the O-ring from the sealing. Otherwise the sealing won't be tight.

## Mounting for TFRN

The CombiTemp™ TFRN can be mounted in several different ways.

- Sensor tube without connection  
Baumer offers compression glands fitting Ø6 and Ø8 mm sensor diameter. This type of mounting is normally used for mounting a sensor direct into a non-pressurized application. If pressurized, ensure that the connection is tightened correctly, so no leakage occur.  
A duct channel mounting flange for 8 mm sensor is also available.

All threaded connections can be mounted directly into the application without thermowell, however often a thermowell is required to enable the user to take out the sensor for e.g. calibration without opening the system.

- Sensor with male threaded process connection G 1/2 A  
This is suitable in a Baumer thermowell type ZPT4. The process connections available for ZPT4 are R 1/2, G 1/2 A, G 3/4 A, M20 or with hygienic ISO 2852 clamp DN 38.
- Sensor with male threaded process connection G 3/4 A and G 1 A and sensors with G 1/2 or G 3/4 female thread can be supplied with a special thermowell. Please contact Baumer.

Mount the gland/pocket into the application and install the sensor after the gland/pocket is fixed to the application. This will ensure that the cable is not twisted during mounting.

Baumer recommends to use a thermal compound filled into the thermowell to ensure best possible heat transfer between the pocket and the CombiTemp TFRN. Baumer offers a 6 gram bag Thermal compound, type ZPX1-001



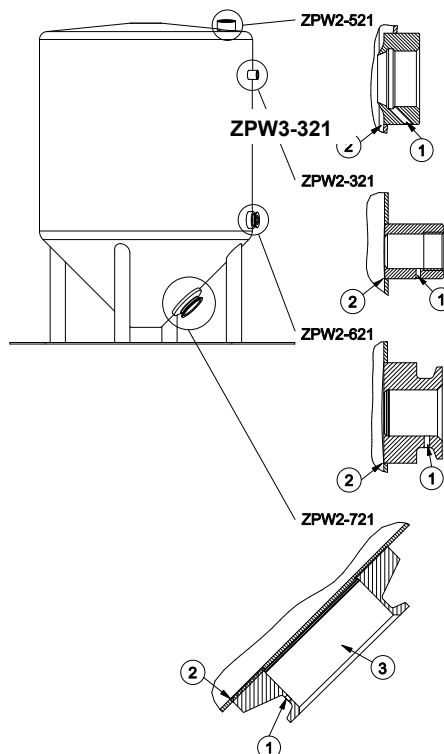
## Mounting for TFRH

### Installation of 3-A and EHEDG approved products:



#### Generally for welding adapters in a tank

- 1 Use only a 3-A/EHEDG approved counterpart.
- 2 Level the inner surface of the tank with the welding adapter.
- 3 If it is possible, always face the inspection hole downwards, so a leaking gasket can be observed quickly and if necessary replaced. The inspection hole should always be visible and drainable.
- 4 Weld from the inside of the tank if possible. Welds shall be free from cracks, burr and grooves. Welding should be grinded to  $Ra \leq 0.8 \mu m$  (Be sure not to grind on the edge of the adaptor hole. Otherwise the connection will not be tight)
- 5 Tighten the connection with the torque stated below



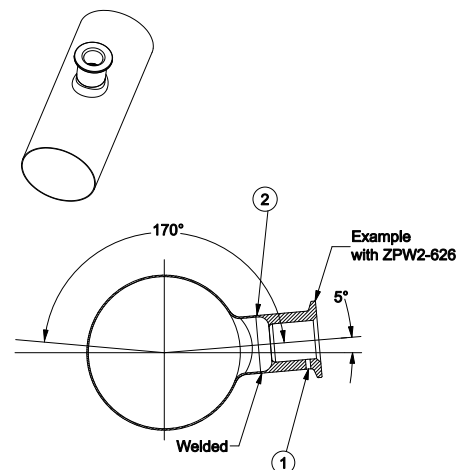
#### Cleaning

Clean, disinfect or sterilize sensor as needed (CIP/SIP).

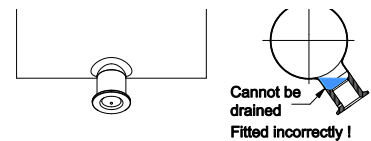
Ensure that when installed in a tank both the sensor and the connection are reached by the cleaning agents.

#### Generally for welding adapters in a tube

- 1 Use only a 3-A/EHEDG approved welding adapter
- 2 Level the inner surface of the pipe with the welding adapter.
- 3 Welds shall be free from cracks, crevices and grooves. Welding should be grinded to  $Ra \leq 0.8 \mu m$ .
- 4 The 3-A mark or arrow shall be placed upwards. Always face the inspection hole downwards, so a leaking gasket can be observed quickly. If necessary to be replaced. The inspection hole should be visible and drainable.
- 5 Always mount the welding adapter in a self-draining position. On a tube;  $>5^\circ$  from horizontal. This will give an optional placement of  $170^\circ$  for the location of measuring point (as shown in the drawing)
- 6 Tighten the connection with the torque stated below



#### WARNING



#### Tighten the connection with a torque of:

CombiTemp TFRH

G 1/2 A hygienic

20 Nm

#### After installation and configuration

- Check the leak tightness between the welding sleeve and the instrument
- Check the tightness of glands or M12 plugs.
- Check the tightness of the instrument cover

It is important that a 3-A marked adapter are installed according to these instructions. Always try to limit cracks, crevices and holes where remaining media can accumulate and provide bacteria.

Always replace gaskets or O-rings that are damaged or defect.

### Hazardous area (ATEX)

The CombiTemp™ TFRx can be supplied for hazardous area. Either as a Simple Apparatus with RDT output or with built in transmitter with 4 ... 20 mA output.

A CombiTemp™ TFRx with built in transmitter will have two possible ATEX approvals, Ex ia (zone 0, 1 or 2) or Ex nA (zone 2).

⊕ II 1 G, EX ia IIC T4/T5, Gas

⊕ II 3 G, Ex nA IIC T4/T5, Gas

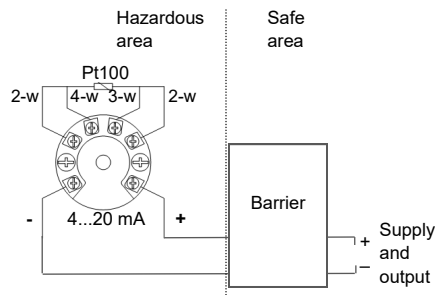
The remaining Ex parameters depend on the type of transmitter and display selected for the product. See detailed data below.

The CombiTemp™ TFRx with Ex ia must be installed in accordance with prevailing guidelines for zone 0 and zone 1 and a certified intrinsically safe zener barrier with the listed maximum values must be used. Electrical connection for the temperature transmitter as per below diagram.

CombiTemp™ TFRx with Ex nA must be installed in accordance with prevailing guidelines for zone 2 without a barrier.

When using CombiTemp™ TFRx with Ex ia simple apparatus in zone 0 with group IIC explosive atmosphere the housing must be connected to ground.

### Electrical connection ATEX ia



### Ex-data for FlexTop™ 2202

Approval	ATEX II 1G, Ex ia IIC T5/T6	
Voltage supply range	8...28 V DC	
Internal inductivity	$L_i$	$\leq 10 \mu\text{H}$
Internal capacity	$C_i$	$\leq 10 \text{nF}$
Temperature class	T1...T5:	$-40 < T_{\text{amb}} < 85^\circ\text{C}$
	T6:	$-40 < T_{\text{amb}} < 50^\circ\text{C}$
Barrier data	$U_i$ :	$\leq 28 \text{VDC}$
	$I_i$ :	$\leq 0,1 \text{A}$
	$P_i$ :	$\leq 0,7 \text{W}$

### Ex-data for FlexTop™ 2211 and 2221

Approval	ATEX II 1G, Ex ia IIC T5/T6	
Voltage supply range	2211	6,5...30 V DC
	2221	8 ... 30 V DC
Internal inductivity	$L_i$	$\leq 15 \mu\text{H}$
Internal capacity	$C_i$	$\leq 5 \text{nF}$
Temperature class	T1...T5:	$-40 < T_{\text{amb}} < 85^\circ\text{C}$
	T6:	$-40 < T_{\text{amb}} < 50^\circ\text{C}$
Barrier data	$U_i$ :	$\leq 28 \text{VDC}$
	$I_i$ :	$\leq 0,1 \text{A}$
	$P_i$ :	$\leq 0,7 \text{W}$

### Ex-data for FlexTop™ with nA approval

Approval	ATEX II 3G, Ex nA IIC T4/T5	
Voltage supply range	2202, 2221:	$U_i$ : 8...30 V DC,
	2211:	$U_i$ : 6,5...30 V DC,
		$I_i$ : $< 100 \text{mA}$
Temperature class	T4:	$-20 < T_{\text{amb}} < 70^\circ\text{C}$
	T5:	$-20 < T_{\text{amb}} < 60^\circ\text{C}$

### Ex-data for Simple apparatus (no transmitter or display)

Approval	Ex ia simple apparatus Da / Ga (IEC 60079-11)	
Internal inductivity	$L_i$	$\leq 0 \mu\text{H}$
Internal capacity	$C_i$	$\leq 0 \text{nF}$
Temperature class	T1...T5:	$-40 < T_{\text{amb}} < 85^\circ\text{C}$
	T6:	$-40 < T_{\text{amb}} < 55^\circ\text{C}$
Barrier data	$U_i$ :	$\leq 15 \text{VDC}$
	$I_i$ :	$\leq 50 \text{mA}$
	$P_i$ :	$\leq 25 \text{mW}$



## ATEX Gas ia for DFON display

Approval: Zone 0/1 ATEX II 1G, Ex ia IIC T5 Ga

Voltage drop  $U_{Disp}$  4,5 or 6,5 VDC

Temperature class T1...T5 Zone 0 -20°C...60°C  
Zone 1/2 -40°C...65°C

Internal inductivity  $L_i$  <10  $\mu$

Internal capacity  $C_i$  <15 nF

Barrier data  $U_i$  <30 VDC

$I_i$  <0,1 A

$P_i$  <0,75 W

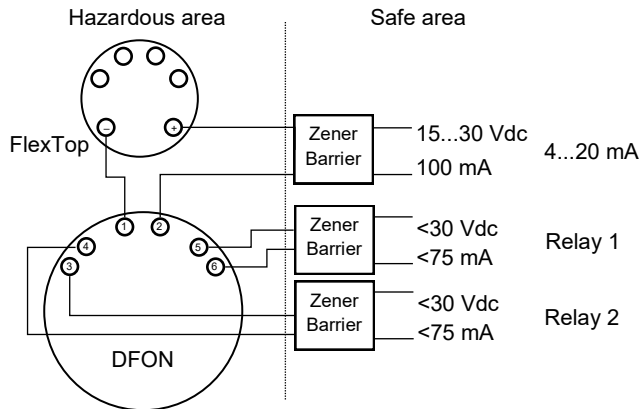
If the relays are enabled, each relay must be protected by a zener barrier. Use a barrier for each relay or a barrier with multiple channels. However the two relays must have each a barrier.

Barrier data  $U_i$  <30 VDC

$I_i$  <75 mA

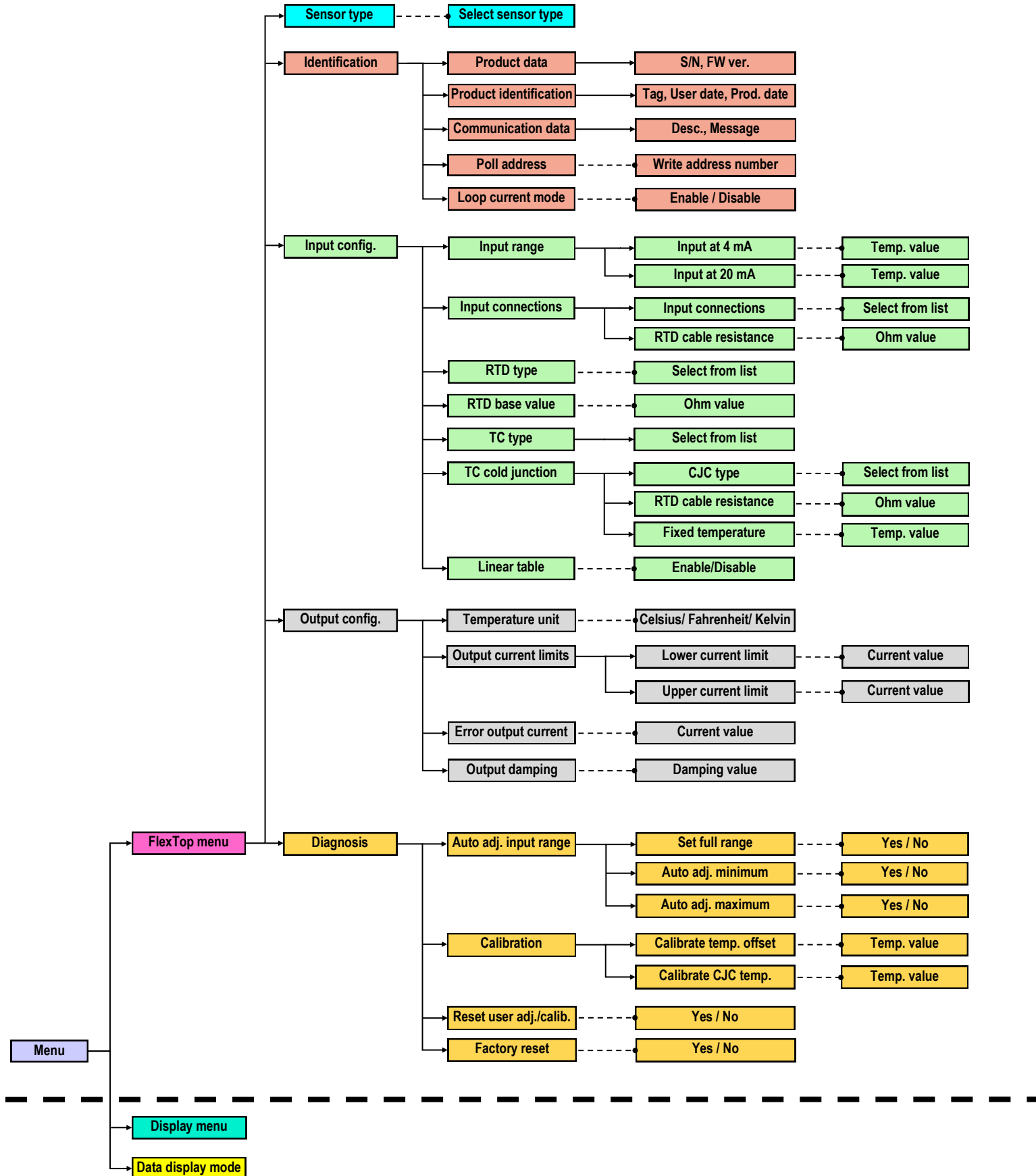
$P_i$  <0,75 W

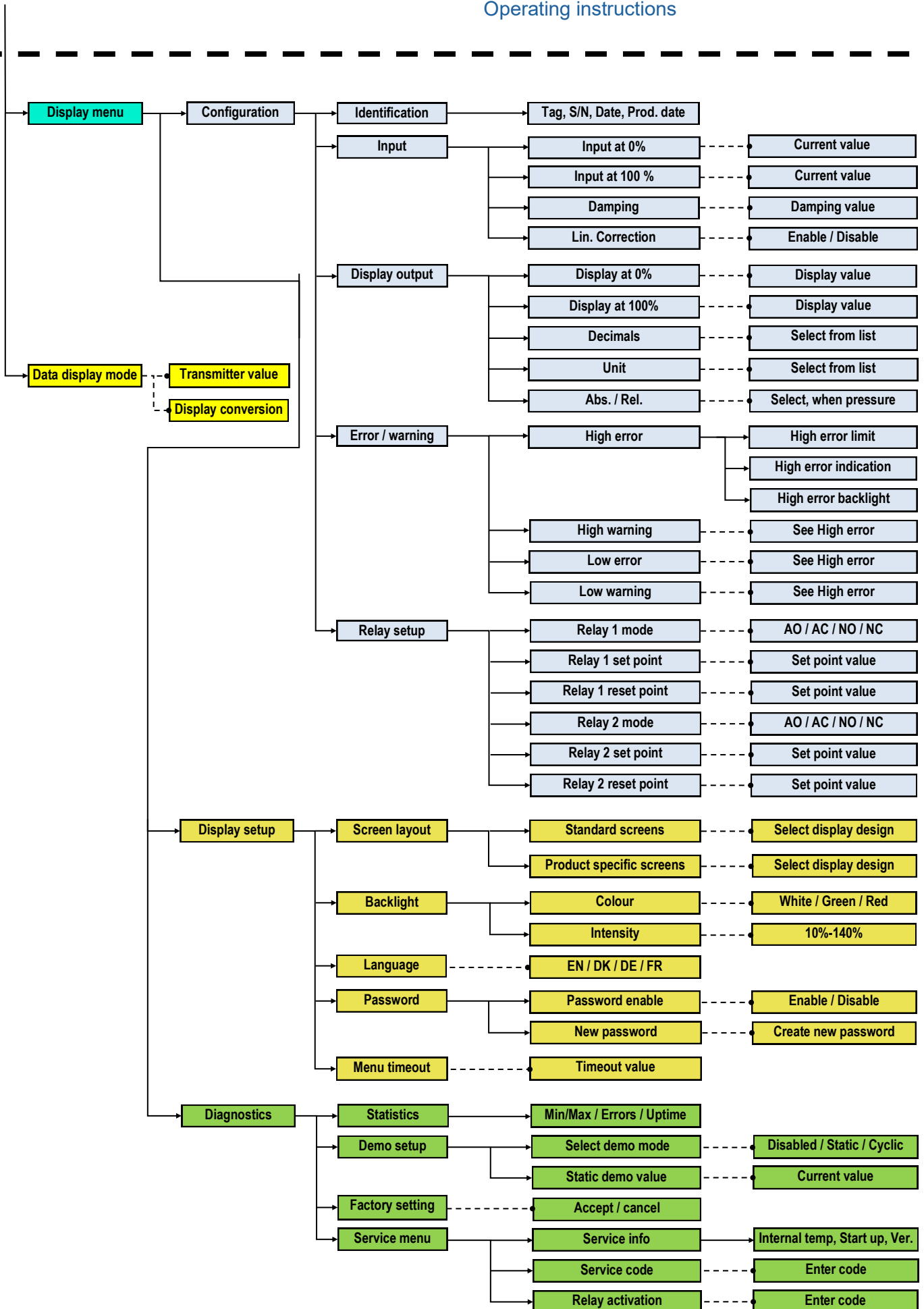
## Electrical connection with DFON display





## DFON menu overview for TFRx with 22x2





## Manufacturer

### EU Declaration of Conformity (EN)

The undersigned declares on behalf of the manufacturer, that the products to which this declaration relates comply with all relevant provisions of the listed EU directive(s) and are based on the specified standard(s).

### EU-Konformitätserklärung (DE)

Der Unterzeichner erklärt im Namen des Herstellers, dass die Produkte, auf die sich diese Erklärung bezieht, allen einschlägigen Bestimmungen der aufgeführten EU-Richtlinie(n) entsprechen und die angegebenen Norm(en) zugrunde gelegt sind.

### ЕС Декларация за съответствие (BG)

Долуподписаният декларира от името на производителя, че продуктите, за които се отнася настоящата декларация, отговарят на съответните разпоредби на изброената(ите) директива(и) на ЕС и се основават на определения(те) стандарти(и).

### EU Prohlášení o shodě (CZ)

Níže podepsaný prohlašuje jménem výrobce, že výrobky, na které se toto prohlášení vztahuje, jsou v souladu se všemi příslušnými ustanoveními uvedených EU směrnic (směrnic) a vycházejí ze stanovených norem.

### EU-Konformitetserklæring (DK)

Undertegnede forklarer på producentens vegne, at produktet, som denne erklæring omhandler, overholder alle gældende bestemmelser i det eller de anførte EU-direktiv(er) og de angivne standarder.

### Declaración de conformidad de la UE (ES)

El abajo firmante declara en nombre del fabricante que los productos a los que afecta esta declaración cumplen con todas las disposiciones de la directriz o las directrices de la UE enumeradas y que la norma o normas indicadas han sido tomadas como base.

### EU-vaatimuksenmukaisuusvakuutus (FI)

Allekirjoittanut vakuuttaa valmistajan puolesta, että tuotteet, joita tämä vakuutus koskee, ovat kaikkien lueteltujen EU-direktiivien asiaankuuluvien määräysten mukaisia ja että ne perustuvat määrättyihin standardeihin.

### Déclaration de conformité UE (FR)

Le signataire déclare au nom du fabricant que les produits auxquels cette déclaration fait référence sont conformes à toutes les dispositions applicables de la/des directive(s) UE mentionnée(s) et satisfont à la/aux norme(s) indiquée(s).

### Δήλωση συμμόρφωσης ΕΕ (GR)

Ο υπογράφων δηλώνει εν ονόματι του κατασκευαστή ότι τα προϊόντα, τα οποία αφορά η παρούσα δήλωση, συμμορφώνονται με όλες τις σχετικές διατάξεις των αναφερόμενων οδηγιών της ΕΕ και βασίζονται στα καθορισμένα πρότυπα.

### EU-megfelelőségi nyilatkozat (HU)

Alulírott a gyártó nevében kijelenti, hogy a jelen nyilatkozattal megjelölt termékek a hivatkozott EU-irányelv(ek) minden vonatkozó rendelkezésének megfelelően és a megadott jogszabályok szerint kerültek elhelyezésre.



Kurt Moller Jensen  
Managing Director

Aarhus, 23.04.2021

## Baumer A/S

### Dichiarazione di conformità UE (IT)

Il sottoscritto dichiara, a nome del fabbricante, che i prodotti oggetto della presente dichiarazione sono conformi a tutte le disposizioni pertinenti delle direttive UE elencate e si basano sulle norme specificate.

### ES atitikties deklaracija (LT)

Pasirašęs asmuo gamintojo vardu patvirtina, kad gaminiai, kuriems taikoma ši deklaracija, atitinka visus nurodytos(-ų) ES direktyvos(-ų) ir standarto(-ų) darniau su reikalavimus.

### ES Atbilstības deklarācija (LV)

Persona, kas parakstījusi dokumentu, ražotāja vārdā apliecina, ka visi izstrādājumi, uz kuriem attiecināma šī Deklarācija, atbilst visu norādīto piemērojamo ES Direktīvu prasībām, un ir piemērots(-i) norādītais(-ie) standarts(-i).

### EU-conformiteitsverklaring (NL)

Ondergetekende verklaart namens de fabrikant dat de producten waarop deze verklaring betrekking heeft aan alle relevante bepalingen van genoemde EU-richtlijn(en) voldoen en conform de gestelde norm(en) zijn.

### EU-samsvarserklæring (NO)

Den undertegnede erklærer på produsentens vegne at produktene nevnt i denne erklæringen, er i samsvar med alle relevante bestemmelser i det/de angitte EU-direktiv(er) og oppfyller den/de angitte standarden(e).

### Deklaracja zgodności UE (PL)

Niżej podpisany oświadcza w imieniu producenta, że produkty, których dotyczy niniejsza deklaracja, są zgodne ze wszystkimi odpowiednimi przepisami wymienionych(ych) dyrektyw(y) UE i są oparte na określonych normach.

### Declaração de conformidade da UE (PT)

O signatário declara, em nome do fabricante, que os produtos, a qual esta declaração diz respeito, estão em conformidade com todas as disposições aplicáveis da(s) referida(s) diretiva(s) da UE e que foram baseados na(s) norma(s) indicada(s).

### Declarație de conformitate UE (RO)

Subsemnatul declară, în numele producătorului, că produsele aflate sub incidența prezentei declarații sunt conforme cu toate dispozițiile relevante ale Directivei (-lor) UE enumerate și se bazează pe standardul (-ele) specificat (-e).

### EÚ vyhlásenie o zhode (SK)

Podpísaná osoba vyhlasuje v mene výrobcu, že produkty, na ktoré sa vzťahuje toto vyhlásenie, zodpovedajú všetkým príslušným ustanoveniam uvedenej smernice/uvedených smerníc EÚ a že bola aplikovaná špecifikovaná norma/boli aplikované špecifikované normy.

### Izjava EU o skladnost (SI)

Spodaj podpisani izjavlja v imenu proizvajalca, da so proizvodi, na katere se ta izjava nanaša, skladni z vsemi ustreznimi določbami navedenih direktiv EU in temeljijo na navedenih standardih.



i.V. Matthias Sutter  
Head of Product Compliance Management

**Directives:**

2014/30/EU, 2014/34/EU, 2011/65/EU (incl. EU 2015/863)

**Regulations (if applicable):**

-

**Standards / Technical Specifications:**

EN 60079-0:2012+A11:2013;  
EN 60079-11:2012;  
EN 60079-15:2010;  
EN 60079-26:2007;  
EN 61326-1:2013;  
EN IEC 63000:2018;

**Remarks:**

x: any figures or letter or character

**Notified body (if applicable):**

TÜV Nord 0044  
Am TÜV 1  
30519 Hannover

**Type examination certificate (if applicable):**

TÜV 07 ATEX 347158 X

**Product group:**

Electronic temperature measurement

**Type(s):**

TCR6-xxxx.x1xx.xxxx.xxxx.xxxx;  
TFR5-xxxx.x1xx.xxxx;  
TFRN-xxxx.x1xx.xxxx.xxxx.xxxx;  
TFRH-xxxx.x1xx.xxxx.xxxx.xxxx;  
TCR6-xxxx.x3xx.xxxx.xxxx.xxxx;  
TFR5-xxxx.x3xx.xxxx;  
TFRN-xxxx.x3xx.xxxx.xxxx.xxxx;  
TFRH-xxxx.x3xx.xxxx.xxxx.xxxx;