Data Sheet

Temperature sensor
Type **MBT 5722**

For monitoring bearing temperature in stern tubes

Designed specially for monitoring bearing temperature in stern tubes:

Flexible protection tube that makes it possible to reach bearings placed up to 20m from the terminal box.

Precision Pt 100 element secures fast and precise caption of the bearing temperature which makes it possible to prevent bearing damage.

Features
- Flexible sheath (bending radius down to R = 30 mm)
- Moveable compression fitting
- Robust construction with resistance to shock and vibrations to IEC 60068-2-6
- Up to 200 °C media temperature with Pt 100 resistance element
- Short reaction time

Product specification

Technical data

Table 1: General data

Measuring range	-50 – 200 ℃
Sensing element	Pt 100, 3 wire connection
Protection tube	ø4.5 mm

Table 2: Response times

	Indicative response time	
Water 0.2 m/s	$t_{0.5}$	$t_{0.9}$
	4 s	12 s

Table 3: Mechanical and environmental specifications

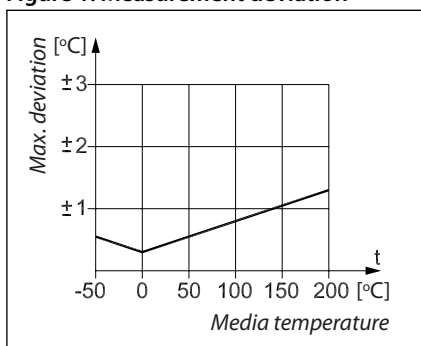| Max. ambient temperature	70 ℃ (brief in max. 2 hours: 80 ℃)	
Vibration stability	Shock:	100 g/6 ms
	Vibrations:	4 g sine function 2 – 100 Hz, measured acc. to IEC 60068-2-6
Enclosure	Sensor tube IP67 according to IEC 60529; Terminal box IP65 according to IEC 60529	
Cable entry	Pg 11	
Material, wetted parts	AISI 316 Ti	

Table 4: Net weight with a length of 2000 mm

Net weight, approx.	600 g
Length / net weight ratio	40 g per 1000 mm

Table 5: Sensor tolerance

EN 60751 Class B	$\pm (0.3 + 0.005 \times t)$ t = media temperature, numerical value

Figure 1: Measurement deviation

Dimensions

Length

ø4.5

Sensor tube

25 79

92 116

Terminal box

Length

ø4.5

ø4.5

25 79

92 116

All dimentions in millimeters

Ordering

Ordering standard

Type MBT 5722		Sensor								
Measuring range										**Accessories**
-50 – 200 °C	0							2		Box
Other	9							9		Other
Resistance value										**Adjustable fitting**
1 × Pt 100		0						0		None
Other		9						9		Other
Sheath diameter, W.nr. 1.4571 (AISI 316 Ti)										
ø4.5 mm			1							
2 × ø4.5 mm			3							
Other			9							**Connection**
Insertion length						1				3-wire
1.0 m				010						**Tolerance**
2.0 m				020	0					EN 60751 Class B
4.0 m				040	9					Other
6.0 m				060						
8.0 m				080						
x.x m				xxx						▢ Preferred versions

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The list contains all certificates, declarations, and approvals for this product type. Individual code number may have some or all of these approvals, and certain local approvals may not appear on the list.

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Table 6: Declarations

File name	Document type	Document topic	Approval authority
EAC RU Д-DK.БЛ08.B.03644	EAC Declaration	Machinery & Equipment	EAC

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