

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 °C
Sensing element	Pt 100, 3 wire connection
Protection tube	ø4.5 mm

**Table 2: Response times**

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

**Table 3: Mechanical and environmental specifications**

Max. ambient temperature	70 °C (brief in max. 2 hours: 80 °C)	
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	

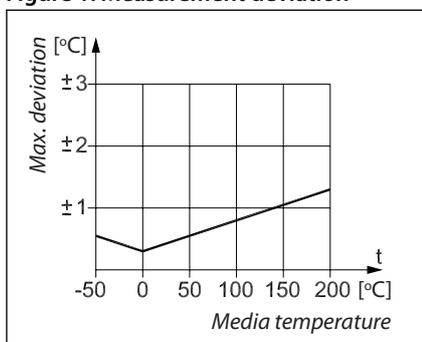
**Table 4: Net weight with a length of 2000 mm**

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
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**Figure 1: Measurement deviation**





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**Table 6: Declarations**

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

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