

Data sheet

Stern tube sensor

MBT 5722



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

Approvals

Lloyds Register of Shipping, LR
Germanischer Lloyd, GL
Det Norske Veritas, DNV
Registro Italiano Navale, RINA

Nippon Kaiji Kyokai, NKK
American Bureau of Shipping, ABS
Korean Register of Shipping, KRS
Bureau Veritas, BV
China Classification Society, CCS

Technical data
General data

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

Response times

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

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	

Net weight with a length of 2000 mm

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

Sensor tolerance

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

Ordering standard

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

■ Preferred versions

Dimensions

