


















SENSOR APPLICATION

SENSOR TYPE

SENSOR SPECIFICATION

Industry	x		x	x		x	x		x			x	x				
Marine approval	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
Water and oil	x		x	x		x			x			x					
Exhaust	x	x													x		
Vapour											x						
Air	x			x		x										x	
Bearing					x		x	x		x		x	x				
Cargo											x						
Surface										x							
Cylinder liner														x			
																	
	MB1100	MB720	GC100 (2)	MN3700 MN524 MB286	MN1841	MN3724	MN4000	MN4119	MN4460	MN3238	MN1535	MN2682	MN2120	MB864	MB158	MN3670 MN46XX	
PT100			x	x	x	x	x	x	x	x	x	x	x			x	
PT1000				x	x	x					x						
Thermocouple	x	x												x	x		
Media temperature	0 - 800 °C	0 - 800 °C	-50 - 600 °C	-50 - 600 °C	-50 - 130 °C	-50 - 200 °C	-50 - 130 °C	-50 - 130 °C	-50 - 200 °C	-50 - 150 °C	-200 - 400 °C	-50 - 30 °C	-50 - 200 °C	0 - 600 °C	0 - 800 °C	-50 - 100 °C	
Protection well	x	x		x		x			x			x			x		
Reaction time (1)	15 sec.	15 sec.	20 sec.	20 sec.	15 sec.	20 sec.	15 sec.	10 sec.	15 sec.	15 sec.	15 sec.	20 sec.	15 sec.	5 sec.	15 sec.	20 sec.	
4 - 20 mA	x		x													x	

(1) Reaction time in water. Detects 63.2% of a sudden changes in temperature.

(2) EEx ia. must be connected to a zener barrier like the KONGSBERG DZ-110 to be used in explosive areas.

Our range of sensors have the following features:

- Internal connection box or hardwire type of sensors
- Easy exchangable by use of protection wells
- Customer specific insertion and cable lenghts
- All designs have marine classification approvals from all major societies

General purpose temperature

- For temperature measurement on diesel/gas engines and engine room instrumentation
- Available for low and high temperature applications
- Reliable design and high quality sensors for long lifetime performance

Exhaust gas temperature

- Our designs have proven with excellent performance towards violent vibrations and temperature peaks generated in the exhaust gas pipes of all types of large marine diesel engines.
- All our exhaust gas temperature sensors are installed in engine builder approved protection wells. This ensures proper adaption to the measuring point providing accurate and fast measurements.
- In addition Kongsberg Maritime offers an extensive range of signal amplifiers. These can be mounted directly on the engine or in cabinets.

Bearing temperature

- Our range of custom designed main bearing temperature sensors can be fitted into any type of 2- and 4-stroke diesel engines.
- In addition we have a comprehensive range of spring loaded/flexible tube type of bearing sensors that are applicable for a high number of applications. These sensors can be used for measurement of bearing metal temperatures or the temperature of the oil flowing out of the bearings.