

ENGINEERING TOMORROW

Product overview | Temperature sensors

Temperature sensors

Precise temperature measurement enabling safe and energy efficient operation of your system.



Temperature sensors **overview**



Type	Standard		AKS 11	MBT 153	MBT 400	MBT 3250	MBT 3252	MBT 3270	MBT 3310	MBT 3560	MBT 5111	MBT 5113	MBT5114	MBT5116	MBT5250	MBT 5252	MBT5260	MBT 5310	MBT 5560
Industries	Heating		~	~	~	~	~	~		~					~	~	~		
	Industry			~		~	~	~	~	~					~	~	*	~	~
	Marine				~	~					~	~	~	~	~		~	~	
Characteristics	Pt 100/Pt 1000		~	*	*	~	~	*	*	~			~	~	~	~	~	~	~
	NTC/PTC			*		~		*											
	Thermocouple										~	~							
	Transmitter									~									~
	Transmitter as option						~					~		~		~			
	Measuring insert		Fixed	Fixed	Fixed	Replaceable	Replaceable	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Replaceable	Replaceable	Fixed	Fixed	Fixed
	Medium temperature	°C	-40 - 100°C	-50 - 200°C	-30 - 50°C	- 50 - 200°C	-50 - 400°C	-50 - 300°C	-50 - 200°C	-50 - 200°C	-50 - 800°C	-50 - 800°C	-50 - 600°C	-50 - 600°C	-50 - 200°C	-50 - 400°C	-50 - 200°C	-50 - 200°C	-50 - 200°C
		°F	-104 - 212°F	-122 - 392°F	-86 - 122°F	-122 - 392°F	-122 - 752°F	-122 - 572°F	-122 - 392°F	-122 - 392°F	-122 - 1472°F	-122 - 1472°F	-122 - 1112°F	-122 - 1112°F	-122 - 392°F	-122 - 752°F	-122 - 392°F	-122 - 392°F	-122 - 392°F
	Enclosure IP		IP 67	IP 67	IP 54	IP 65	IP 65	IP 67	IP 65	IP 67	IP 65	IP 65	IP 65	IP 65	IP 65	IP 65	IP 65	IP 65	IP 67
	Material protection tube		N/A	AISI 304/316	N/A	AISI 316Ti	AISI 316Ti	AISI 316Ti	AISI 316Ti	AISI 316Ti	AISI 316Ti	AISI 316Ti	AISI 316Ti	AISI 316Ti					
	Reaction time t _{0,5} in water (sec)		10 s on Cu tube	1 s	τ air 3 min	9 s	12 s	1.3 s	6 s	10 s	2 s	30 s	2 s	30 s	9 s	12 s	2 s	6 s	9 s
	Zero point and span adjustment		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Marine approvals										~	~	~	~	~	~	~	~	~

Danfoss A/S

Marine

Alongside the increasing demand

for shipping tonnage, demands on

rise. Danfoss sensors withstand

harsh conditions, help you meet

increase safety and efficiency. Our

temperature sensors and pressure

• Engine and propulsion system

Exhaust gas treatment systems

Fuel, oil, and water treatment

transmitters support:

systems

Auxiliary systems

engines to consume less fuel, control

emissions, and enhance performance

strict environmental regulations, and

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Unsurpassed expertise makes all the difference

When you choose Danfoss as your supplier of pressure transmitters and temperature sensors, you choose a dedicated partner who truly understands the challenges in your specific application. Years of experience allow us to provide you with advanced solutions that will meet your every requirement in terms of performance and life cycle durability. Select from our wide range of standard devices or team up with our worldwide sensor experts to design a customized solution for your equipment.

Industry

Industrial applications call for dedicated products—from heavyduty off-shore wind power equipment to cutting-edge water distribution systems. Close cooperation allows us to develop dedicated sensor solutions tailored to your specific applications. Our robust sensors are accurate, reliable, corrosion-resistant and energyefficient, supporting:

- Wind power industry
- Water distribution industry
- Air compressor industry

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Heating

ENGINEERING TOMORROW

> Heating is critical to the infrastructure of our growing cities and must meet new standards for safety and efficiency. Danfoss offers a dedicated range of pressure transmitters and temperature sensors to optimize heating applications such as:

- Boiler room equipment
- District heating substations





