

Product overview | Pressure transmitters

# Pressure transmitters designed for customer needs

A pressure transmitter overview.

**One**

stop shop for your  
sensor needs



# Pressure transmitters

## overview



		General purpose														Smart sensors		Harsh environment		
Type	Standard	MBS 1700	MBS 3000	MBS 3200	MBS 3300	MBS 33	MBS 33M	MBS 4000		MBS 4010	MBS 4201	MBS 5100	MBS 9200	MBS 9300	EMP2	DST P300	DST P30M	DST P40M	DST P40I	
	With pulse-snobber	MBS 1750	MBS 3050	MBS 3250	MBS 3350			MBS 4050			MBS 4251	MBS 5150				DST P350	DST P35M			
Industries	Heating	✓	✓	✓		✓		✓		✓			✓			✓				
	Industry	✓	✓	✓		✓		✓		✓	✓		✓			✓		✓	✓	
	Marine				✓		✓				✓	✓		✓	✓		✓	✓		
Characteristics	Sensor technology	Piezo resistive	Piezo resistive	Piezo resistive	Piezo resistive	Piezo resistive	Piezo resistive	Piezo resistive		Piezo resistive	Piezo resistive	Piezo resistive	Piezo resistive	Piezo resistive	Piezo resistive	Piezo resistive	Piezo resistive	Ceramic	Ceramic	
	Accuracy max @20°C	1%FS	1%FS	1%FS	1%FS	0.8%FS	0.8%FS	0.5%FS		0.8-1%FS	1%FS	0.3%FS	0.5-2.0%FS	0.5-2%FS	0.8%FS	1 %FS	1%FS	1%FS	1%FS	
	Measuring range	bar	0-6 bar to 0-400 bar	0-1 bar to 0-600 bar	0-1 bar to 0-600 bar	0-1 bar to 0-600 bar	0-1 bar to 0-600 bar	0-1 bar to 0-600 bar	0-1.6 bar to 0-400 bar		0-0.25 bar to 0-60 bar	0-1 bar to 0-600 bar	0-4 bar to 0-400 bar	0-40 mbar to 0-250 mbar	0-40 mbar to 0-250 mbar	0-1.6 bar to 0-250 bar	0-1 bar to 0-600 bar	0-1 bar to 0-600 bar	0-4 bar to 0-100 bar	0-4 bar to 0-100 bar
		psi	0-90 psi to 0-6000 psi	0-14.5 psi to 0-9000 psi	0-23 psi to 0-6000 psi		0-3.6 psi to 0-900 psi	0-14.5 psi to 0-9000 psi	0-58 psi to 0-6000 psi	0-0.58 psi to 0-3.6 psi	0-0.58 psi to 0-3.6 psi	0-23 psi to 0-3600 psi	0-14.5 psi to 0-9000 psi	0-14.5 psi to 0-9000 psi	0-58 psi to 0-1450 psi	0-58 psi to 0-1450 psi				
	Output signal		4-20mA	4-20mA	4-20mA	4-20mA	4-20mA	4-20mA	4-20mA		4-20mA	4-20mA	4-20mA	4-20mA	4-20mA	4-20mA	4-20mA	4-20mA	4-20mA	4-20mA
				Ratiometric	Ratiometric	Ratiometric								Ratiometric	Ratiometric		Ratiometric	Ratiometric		
				Absolute Voltage	Absolute Voltage	Absolute Voltage	Absolute Voltage										Absolute Voltage	Absolute Voltage		
	Media temperature	°C	-40 to 85°C	-40 to 85°C	-40 to 125°C	-40 to 125°C	-40 to 85°C	-40 to 85°C	-40 to 85°C		-40 to 85°C	-40 to 100°C	-40 to 85°C	-40 to 125°C	-40 to 125°C	-40 to 100°C	-40 to 125°C	-40-100/125°C	-15 to 85°C	-15 to 85°C
		°F	-40 to 185°F	-40 to 185°F	-40 to 257°F	-40 to 257°F	-40 to 185°F	-40 to 185°F	-40 to 185°F		-40 to 185°F	-40 to 212°F	-40 to 185°F	-40 to 257°F	-40 to 257°F	-40 to 212°F	-40 to 257°F	-40-212/257°F	5 to 185°F	5 to 185°F
	Enclosure IP		IP65	IP65 IP67	IP65		IP65 IP67	IP65 IP67	IP65	IP65 IP67	IP65	IP65	IP65 IP67	IP65 IP67	IP65	IP65				
	Wetted parts material		AISI 316L	AISI 316L	AISI 316L	AISI 316L	AISI 316L	AISI 316L	AISI 316L		AISI 316L	AISI 316L	AISI 316L	AISI 316L	AISI 316L	AISI 316L	AISI 316L	AISI 316L	Titanium Ceramic	Titanium Ceramic
	Housing material		AISI 316L, PA 6.6	AISI 316L, PA 6.6	AISI 316L, PA 6.6	AISI 316L, PA 6.6	AISI 316L, PA 6.6	AISI 316L, PA 6.6	AISI 316L, PA 6.6		AISI 316L, PA 6.6	AISI 316L, PA 6.6	Al 6012 PA 6.6	AISI 316L, PA 6.6	AISI 316L, PA 6.6	Al	AISI 316L, PA 6.6	AISI 316L, PA 6.6	Titanium PA 6.6	Titanium PA 6.6
	Marine approvals				✓		✓					✓	✓		✓	✓		✓	✓	
ATEX			Zone 2	Zone 2	Zone 2	Zone 2	Zone 2	Zone 2		Zone 2	Zone 0	Zone 2	Zone 2	Zone 2	Zone 2	Zone 2	Zone 2			
UL Hazloc			Class 1, Div. 2	Class 1, Div. 2	Class 1, Div. 2	Class 1, Div. 2	Class 1, Div. 2	Class 1, Div. 2		Class 1, Div. 2		Class 1, Div. 2				Class 1, Div. 2				
Diagnostics / output clamping																✓	✓			

# 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.



## Marine

Alongside the increasing demand for shipping tonnage, demands on engines to consume less fuel, control emissions, and enhance performance rise. Danfoss sensors withstand harsh conditions, help you meet strict environmental regulations, and increase safety and efficiency. Our temperature sensors and pressure transmitters support:

- Engine and propulsion system
- Exhaust gas treatment systems
- Fuel, oil, and water treatment systems
- Auxiliary systems



## Industry

Industrial applications call for dedicated products—from heavy-duty 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 energy-efficient, supporting:

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



## Heating

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

### Danfoss A/S

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