

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 | 0-14.5 psi to 0-9000 psi | 0-14.5 psi to 0-9000 psi | 0-14.5 psi to 0-9000 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 IP67 | IP65 IP67 | IP65 IP67 | 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 |
| | Edix™ compliant | | | | | | | | | | | | | | | | ✓ | ✓ | | |
| | 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