motralec Danfoss Pressure transmitters Type DST P40M Harsh environment· DEMANDE DE PRIX >
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ENGINEERING TOMORROW

Data Sheet

Pressure transmitters Type DST P40M

Harsh environment marine application



The P40M pressure transmitter has been designed specific for pressure monitoring of marine applications such as Ballast water treatment systems, Exhaust gas scrubbers, Desalination and Sea water cooling systems where high corrosion resistance and longevity are essential for the continued operation of auxiliary & propulsion systems onboard the vessel.

The enclosure of the pressure transmitter is machined out from a single piece of Titanium to eliminate any structural weaknesses. Titanium is exceptionally resistant to a broad range of acids and alkalis, as well as Sodium Chloride and polluted waters. Titanium's corrosion resistance together with its low density, high strength and erosion resistance, make this pressure transmitter ideal for numerous chemical processing and marine uses.

The pressure sensing element is made from ceramic Al_2O_3 96% which has excellent chemical immunity and is suitable for nearly all aggressive media. The pressure transmitter works following the piezo resistive principle and the Wheatstone bridge is screen printed directly on one side of the ceramic diaphragm by means of Thick Film technology

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Features

- Designed for use in corrosive industrial environments such as desalination systems, medical industry, chemical processing, chlorate containing liquids, hydro-carbon processing, etc.
- Enclosure Titanium grade 2
- Temperature compensated
- Reverse polarity protected
- Gauge (relative)
- Wetted parts: Titanium & Ceramic
- Ceramic Al2O3 96%
- High linearity and low hysteresis value
- RoHS compliance

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Product specification

Technical data

Table 1: Technical specifications

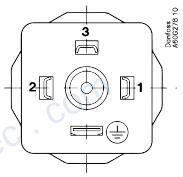
Specifications			Values
Transmitter type			DST P40M
Accuracy (incl. non-linearity, hysteresis and repeatability)			< ± 1% FS (typ.) @ ambient temperature
Compensated temperature range			0 – 80 °C
Total error band within compensated temperature range			± 1.5% FS (typ.)
Output type			4 – 20 mA
Pressure reference			Gauge
Supply voltage range			9 – 32 V DC
Rise time (10 – 90%)			< 5 ms
Overload pressure			2 x FS
Burst pressure			2.5 x FS
Durability			P:10-90%FS > 10 mio cycles
Media temperature range			-15 – 85 °C
Ambient temperature range			Depending on electrical connection see Electrical connections
Storage temperature range			-40 – 105 °C
Load [R_L]			RL≤(UB-8V)/0,02A
EMC – Emission			EN 61000-6-3
EMC – Immunity			EN 61000-6-2
Vibration stability	Sinusoidal	15.9 mm-pp, 5 Hz – 25 Hz 20 g, 25 Hz – 2 kHz	IEC 60068-2-6
Shock resistance	Shock	100 g / 1 ms	IEC 60068-2-27

Table 2: Pressure range

0 – 4 bar	Gauge
0 – 6 bar	Gauge
0 – 10 bar	Gauge
0 – 16 bar	Gauge
0 – 25 bar	Gauge
0 – 100 bar	Sealed gauge

Electrical connections

Table 3: Electrical connections

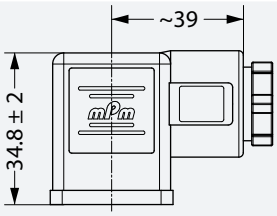
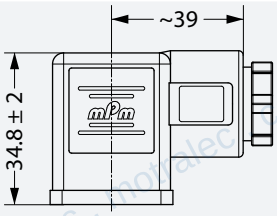
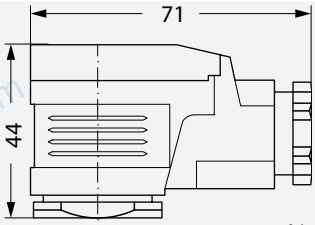
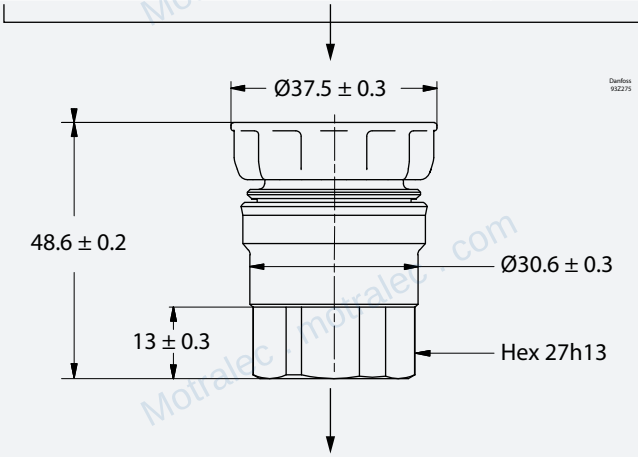
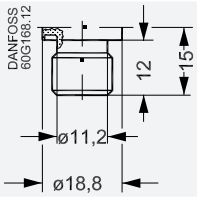
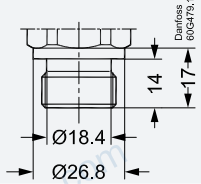
Type code	A0: Male A1: Pg 9 A6: Pg 11 H3: M20
	 EN 175301-803-A
Ambient temperature	-25 - 85 °C
Enclosure (IP protection fulfilled together with mating connector)	IP65
Electrical connection, 4 – 20 mA output (2 wire)	Pin 1: + supply Pin 2: ÷ supply Pin 3: not used Pin 4: Ground connection to sensor house

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Dimensions / Combinations

Table 4: Dimensions and combinations of connector and connection types

Type code	A1	A6	H3
Connector	 EN 175301-803-A, Pg 9	 EN 175301-803-A, Pg 11	 EN 175301-803-A, M20
			
Connection Types			
Type	G ¼"; ISO 1179-2	G ½"; ISO 1179-2	
Gasket	FKM	FKM	
Type code	GB04	GB08	
Recommended torque [1]	30 – 35 Nm	30 – 35 Nm	

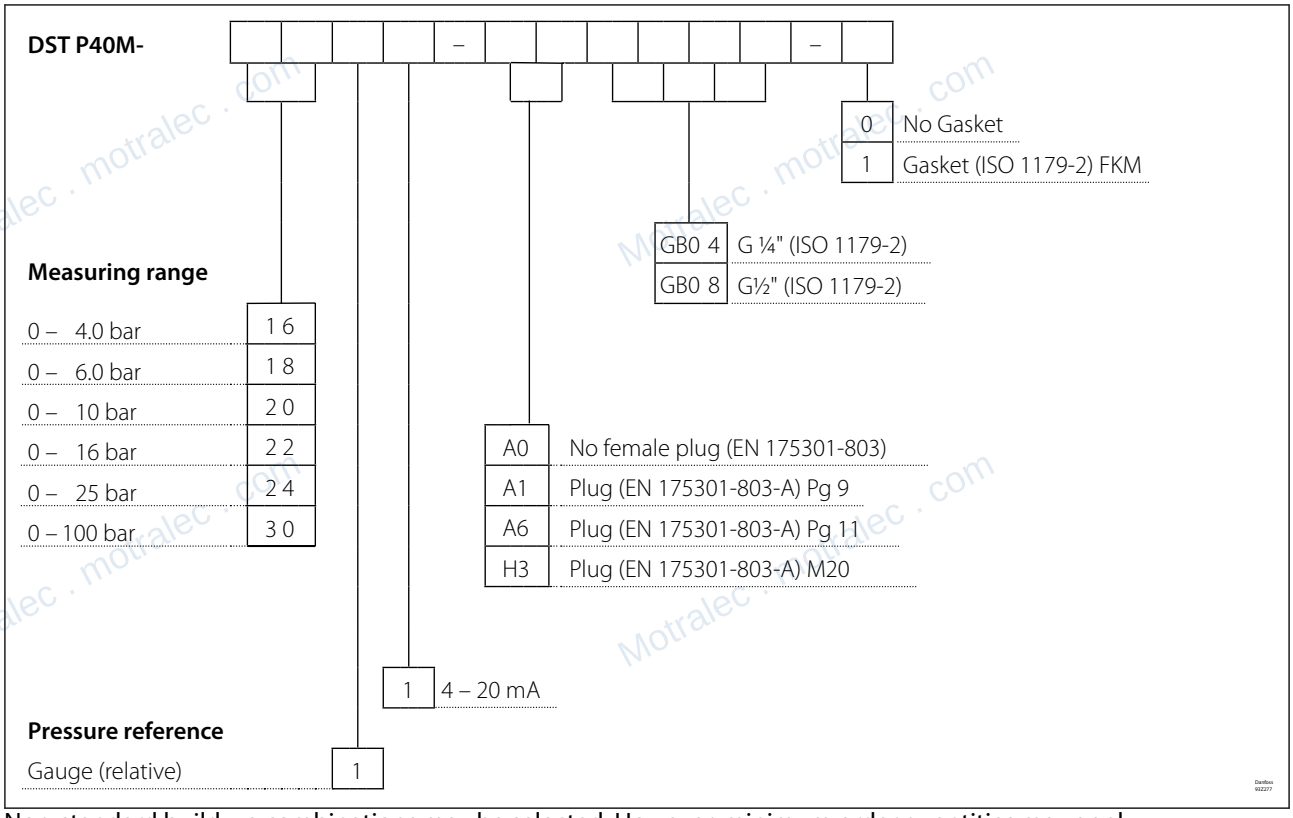
[1] Depends on different parameters such as gasket material, mating material, thread lubrication and pressure level

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Ordering

Ordering standard



Non-standard build-up combinations may be selected. However, minimum order quantities may apply.

Please contact your local Danfoss office for further information or request on other versions.

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The list contains all certificates, declarations, and approvals for this product type. Individual code number may have some or all of these approvals, and certain local approvals may not appear on the list.

Some approvals may change over time. You can check the most current status at danfoss.com or contact your local Danfoss representative if you have any questions.

File name	Document type	Document topic	Approvals Authority
DNV MRA000003B	Approval Certificate	Marine classification (EU RO) MUTUAL RECOGNITION CERTIFICATE	DNV/GL
Danfoss EU-UK 078R0006.04	EU_UK Declaration	EMC/RoHS	Danfoss
KR CPH 04967-AE014	Approval Certificate	Marine classification	Korean Register
NKK TA21093M	Approval Certificate	Marine classification	NKK
CCS TJ22PTB00047	Approval Certificate	Marine classification	CCS

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