Model MPT160 Melt Pressure Transducers & Transmitters



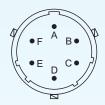
BCM melt pressure transducers and transmitters (MPT) are developed from BCM strain gauge technology and manufactured in mass production. The MPT are constructed with a full bridge strain gauge circuit and 100% made from stainless steel material (standard version). In addition, the pressure diaphragm features a surface treatment with special alloy coating for all the MPT models. Both the rigid stem and flexible extension provide therma isolation to MPTs electronic circuitry, which enable MPT suitable for melt pressure and melt temperature measurements.

MPT160-series are basic models of BCM MPT, from which the other models are developed. The output of BCM MPT is either the strain gauge signal (for instance, 3.33mV/V multiplied by the bridge excitation voltage), or the amplified signals (such as 0~10 Vdc or 4~20 mA). By short-circuit, a shunt resistor will be connected which provides MPT with a 80%fso signal for calibration without need of the external calibration pressure.

Features:

- ⋆ wide measuring range from 0~10 bar to 0~2000 bar;
- * higher measuring accuracy up to 0.3%fso;
- * internal shunt calibration signal of 80%fso;
- amplified output signal available with Zero and Span adjustment;
 100% stainless steel construction with special alloy coating
- on pressure diaphragm;
 hastelloy-C diaphragm available on request.

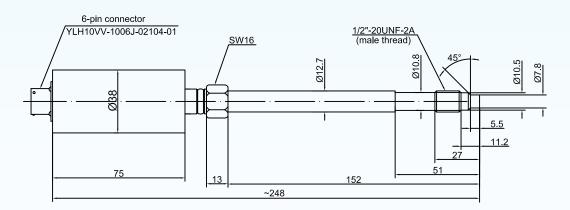
Electrical Connectors:



6-pin male connector
YLH25N1006J-4
(6-hole mating socket: YLH26N1006K22)



Dimensions:



BCM SENSOR TECHNOLOGIES BVBA

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Specifications:

parameters	units	specifications
measuring range	bar	0/10, 0/20, 0/35, 0/50, 0/70, 0/100, 0/200, 0/350, 0/500, 0/700, 0/1000, 0/1400, 0/2000
overload pressure	% FS	150 (2100 bar max.)
signal output @ FS	mV/V	3.33
or: amplified output signal		0~5 Vdc, 0~10 Vdc, 4~20 mA
supply voltage	Vdc	10 (8~12 acceptable) for MPT of 3.33 mV/V strain gauge output
		12~36 for MPT of amplified output signal
combined error	%fso	0.3, 0.5 (standard), 1.0
zero adjustment	%fso	±10
span adjustment	%fso	± 6
repeatability	%fso	0.2
output resistance	Ω	350 ± 10%
insulation resistance	ΜΩ	≥ 500 @ 100 Vdc
max. temp. @ wetted parts	°C	400
temperature coefficient of ZERO	%fso/10°C	0.5
temperature coefficient of SPAN	%fso/10°C	0.5
long term stability	%fso/year	< 0.15
compensated temp. range	°C	0~80
process connection	external thread	1/2"-20 UNF-2A (standard), M14x1.5, M18x1.5
electrical connection	connector	6-pin (standard) male tighten connector, 8-pin male screw in connector
max. mounting torque	N.m.	40
weight	kg	0.5

The listed specifications are subject to change without prior notice.



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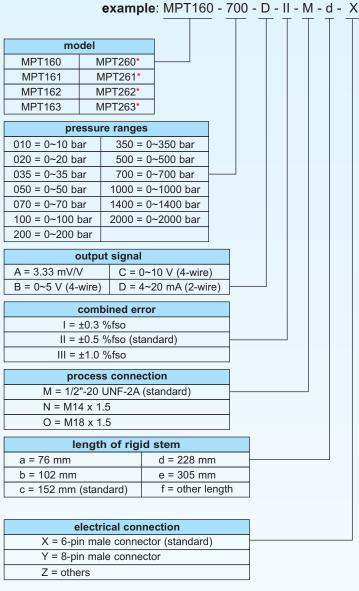
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Ordering codes:



^{*:} MPT26X-series feature a pressure manometer mounted on the top of MPT16X-series products.

ordering code example: MPT160 - 700 - D - II - M - d - X

MPT160 melt pressure transducer with measuring range $0\sim700$ bar, output $4\sim20$ mA, combined error 0.5 %FS, connection thread 1/2"-20UNF-2A, rigid stem length 228 mm, and 6-pin male electrical connector.

OPTIONS

- 1. MPT with CANbus output is available on request.
- 2. The 6-core (for 3.33mV/V, 0~5 V or 0~10 V output) or 4-core (for 4~20 mA output), shield VPC cable of 5 meter length, with a 6-hole or 8-hole mating socket connected, is available on request.
- 3. The 2-core temperature compensation cable of 5 meter length with a 2-hole mating socket connected, is available on request.



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