



UMPB Series Melt Pressure Transmitter

Description

UMPB series melt pressure transmitters are developed from strain gauge technology. The UMPB are constructed with a full bridge strain gauge circuit and 100% made from stainless steel material. In addition, the pressure diaphragm features a surface treatment with special alloy coating for all the UMPB models. Both the rigid stem and flexible extension provide thermal isolation to UMPT's electronic circuitry, which enable UMPB suitable for melt pressure and melt temperature measurements.

UMPB-a melt pressure transmitter can work with digital pressure meters, so as to realize the measurement & control for pressure. With internal 80%FSO shunt calibration, UMPB-a's zero and span is adjustable, and its amplified output signal can be inputted to PLC directly. Because of its features of high accuracy of pressure measurement, this product is widely popular in oversea and home market.

UMPB-b melt pressure transmitter is manufactured by using a temperature sensor based on UMPB-a, suitable for melt pressure and temperature measurement. Its performance is same as UMPB-a.

UMPB-c melt pressure transmitter is manufactured by using flexible extension based on UMPB-b, providing further thermal isolation for electronic circuitry. Its performance is same as UMPB-a.

UMPB-d melt pressure transmitter is manufactured by using a temperature sensor based on UMPB-c, suitable for melt pressure and melt temperature measurements. Its performance is same as UMPB-c.

UMPB series melt pressure transmitters are widely used for melt pressure measurement and control in chemical fiber equipments, plastic and rubber manufacturing equipments, medicine equipments, food processing equipment etc.

Features

- Integrated stainless steel construction ;
- Good stability & realibility;
- Internal shunt calibration signal of 80%fso;
- Hastelloy-C diaphragm available on special request;
- Zero & span adjustable;



UMPB-a



UMPB-b

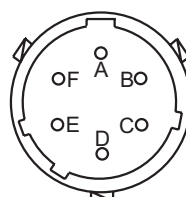


UMPB-c



UMPB-d

Electrical connection



6-pin male connector YLH25N1006J-4

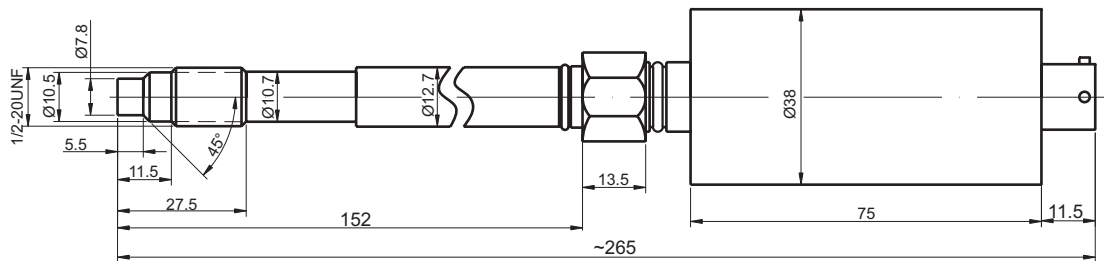


UMPB Series Melt Pressure Transmitter

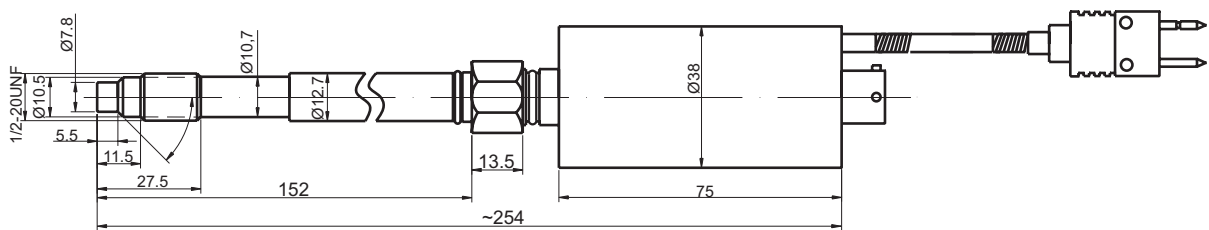
Specifications

pressure ranges	0~35bar...2000bar
overload pressure	200%FS
output signal	3.33mV/V(for transducer); 4~20mA, 0~5V, 0~10V, 1~5V
accuracy	0.25%FS, 0.5%FS(standard), 1%FS
load resistance	$R_L = (U - 12V) / 0.02A$ (4~20mA current output) U—loop voltage (V)
long-term stability	<0.2%FS/year
supply voltage	10V DC(for transducer); 12~36VDC
compensated temperature range	0~+80°C
max operating temp. @ wetted parts	+350°C for UMPB-c or UMPB-d , +200°C for UMPB-a or UMPB-b
temperature coefficient of zero	0.5%FS/10°C
temperature coefficient of span	0.5%FS/10°C
insulation resistance	100MΩ@50VDC
process connection	1/2"-20UNF-2A or others
electrical connection	6 pin male tighten connector or others
temperature sensor	J type(Fe-CuNi)thermocouple or other type on request
thermocouple connection	2 pin plug in connector

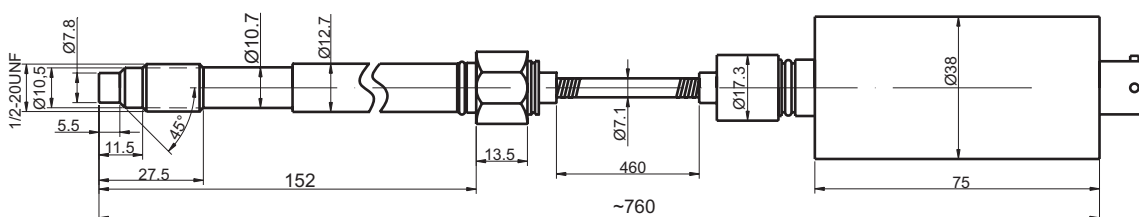
Dimensions



UMPB-a



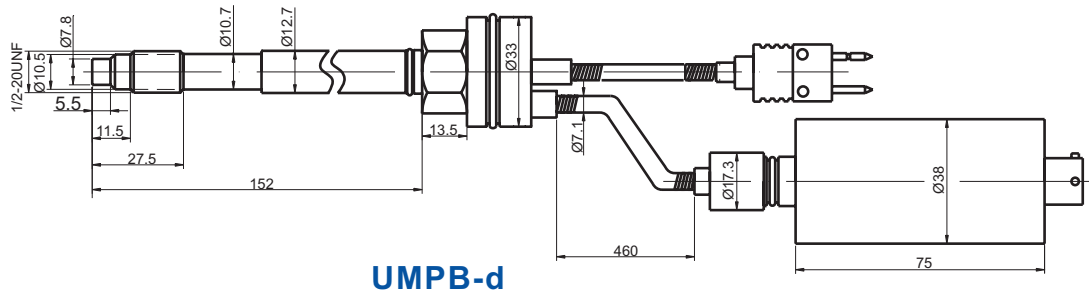
UMPB-b



UMPB-c



UMPB Series Melt Pressure Transmitter



UMPB-d

Ordering code

UMPB-a									
UMPB-b									
UMPB-c									
UMPB-d									
range		measuring range: 0~35bar...2000bar							
(0~X)bar		X: higher limit of actual measuring range							
code		output							
O1		4~20mA							
O2		0~10V							
Oz		customer request							
code		accuracy							
C		0.25%FS							
D		0.5%FS(standard)							
E		1%FS							
code		process connection							
Pu		1/2-20UNF(standard)							
Pm		M18×1.5							
Pg		G3/8							
Pz		customer request							
code		electrical connection							
E1		5-pin male connector							
E2		6-pin male connector(standard)							
Ez		customer request							
code		temperature measurement (UMPB-b and UMPB-d)							
J		J-thermocouple (standard)							
K		K-thermocouple							
E		E-thermocouple							
P		Pt100 thermal resistor							
		length of flexible extension(UMPB-c and UMPB-d)							
		1=380mm		2=458mm		3=762mm		4:other length	
		code		length of rigid stem					
		L1		152mm(standard)					
		L2		229mm					
		L3		305mm					
		Lz		other length					
UMPB-b (0~200)bar O1 D Pu E2 J 1 L1									

*: The user should indicate on the order sheet if the product is used in medicine or food industries.
 **: HART protocol output is available on request.