

# Melt Pressure Transducer / Transmitter

## GPT300

### DESCRIPTION

GPT300 series pressure transmitters are ideal for the measurement of melt pressure in extrusion processes at temperatures up to 400°C. The main applications are plastics extrusion and rubber, spinning systems and equipment for manmade fibers, petrochemical industries and so on. Optional thermocouple or RTD configurations are available. Electrical connection 5PIN and 6PIN option.

### FEATURES

- Better than  $\pm 1.0\%$  accuracy
- Standard diaphragm Inconel
- TiN or TiAlN coating option
- Internal 80% shunt calibration
- 0-35 to 0-2000 bar / 0-500 to 0-30000 psi
- 4~20mA, 0~20mA, 0~10V, 0~5V outputs
- Maximum diaphragm temperature up to 400°C
- 1/2-20 UNF, M18x1.5, M22x1.5 standard threads
- Other types available on request

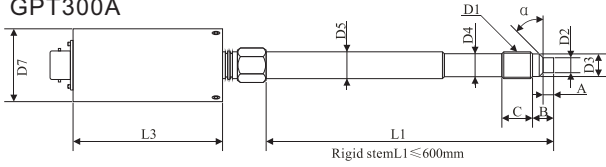


### TECHNICAL SPECIFICATION

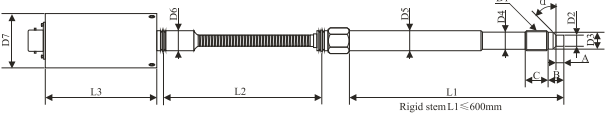
Item	Specification	
Pressure range	0~35 to 2000bar(0~500 to 0~30000psi)	
Accuracy	$\pm 0.1\%$ FS	
Repeatability	$\pm 0.8\%$ FS	
Power Supply	Transmitter	Transducer
	24Vdc recommended 9-36Vdc	10 Vdc recommended 12 Vdc maximum
Output signal	Transmitter	Transducer
	4~20mA, 0~20mA, 0~10V, 0~5V, 1~5V	2.0mv/v for 5PIN, 3.33mv/v for 6PIN
Maximum diaphragm temp.	662°F (350°C) for rigid stem 752°F (400°C) for flexible	
Zero shift due to temp. change	40 psi/100°C 0.3MPa/100°C	
Process connection	1/2-20 UNF thread (45°conical seal) M14x1.5, M18x1.5, M22x1.5 etc	
Max. Overload Pressure Rating	1.5 x FSO	
Pressure Units	PSI, Bar, Mpa or Kg/cm2	
Internal Shunt Calibration	80% FSO	
Measurement principle	4-arm bonded foil strain gage Wheatstone bridge	
Electrical Connection	5PIN or 6PIN	
Temperature Sensor (optional)	E, J, K, S type or Pt100	

## DIMENSION(mm)

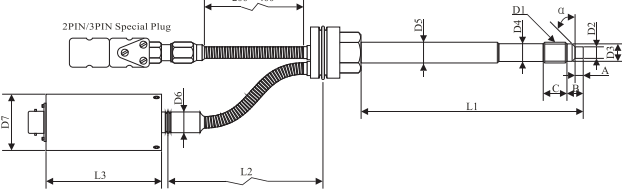
GPT300A



GPT300B



GPT300C



D1	M12×1.5	M14×1.5	1/2" -20	M18×1.5	M22×1.5	M28×1.5	G3/4"	PF3/8"	1/2-16"	3.25"	3.5"
D2	φ 7.8	φ 7.8	φ 7.8	φ 9.8	φ 9.8 φ 15.8	φ 17.8	φ 17.8	φ 9.8	φ 23.5	φ 23.5	φ 23.5
D3	φ 10	φ 11.8	φ 10.5	φ 15.5	φ 19.5	φ 24	φ 24	φ 14	φ 33.5	φ 33	φ 33
D4	φ 10	φ 12	φ 10.8	φ 16	φ 19.5	φ 25	φ 24	φ 14			
D5	φ 11.7	φ 13.8	φ 12.7	φ 17							
D6	Standard dimension φ17; other dimensions can be customized										
D7	Standard dimension φ38; other dimensions can be customized										
α	Standard angle 45° /90° ; other angle can be customized										
A	5.5	5.5	5.5	6	10	11	11	8	13	13.5	13.5
B	11	12.5	12	14	16	17	17	12	21	51	61
C	17	17	17	20	35	28	40	25	37	19	19
L1	Standard dimension 150mm; other dimensions can be customized										
L2	Standard dimension 470mm; other dimensions can be customized										
L3	Standard dimension 78mm; other dimensions can be customized										
Seal	45° slopes					plain end face			flange installation		

## ELECTRICAL CONNECTIONS

