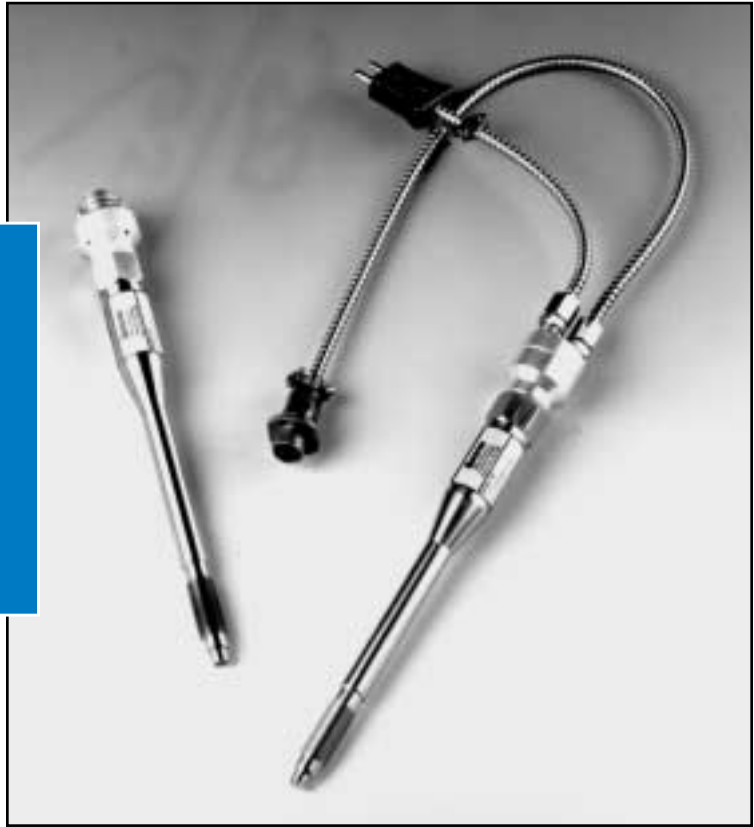


Plastic Melt Pressure Transducers

Model GT72 & GT76



■ **Precise Pressure Measurement**

Gentran's models GT72 and GT76 have non-linearity specifications of $\pm 0.5\%$ and $\pm 1.0\%$ of full scale BFSL, respectively. Repeatability for both models is better than 0.1% of full scale.

■ **Easily Installed**

These transducers can be installed directly into the extruder, melt pump or other pressure tap. All mating cable assemblies are terminated with spade lugs for simple electrical connection.

■ **Industry Compatible**

All Gentran products are configured to industry standards for effortless replacement of parts. We offer compatible units complete with flexible armor stems so that you can replace a transducer without disturbing your existing wiring or indicator configuration.

■ **Versatility**

Gentran offers various body lengths, thread dimensions and options for thermocouples. Integral, flexible armored cable is also available. For special applications, we can custom design unique configurations to fit your needs.

■ **Rugged and Durable**

Our units last up to six times longer than other units because of our thicker 17-4 PH stainless steel diaphragms that operate from 0 to 750°F.

Ordering Information

TYPICAL PART NUMBER

TRANSDUCER

GT72 /6 J C D6 Z1 -10K

Melt Pressure Transducer Model		Barrel Length		Thermocouple Type		Diaphragm Material		Wiring Options		"Z" Options		Pressure Range**			
GT72	High Accuracy Unit ±0.5%	6	6 inch "A" Length	J	"J" Type	None	17-4 PH SST	None	Standard 6-pin Cannon Connector	None	Standard Unit	5C	0-500*		
				K	"K" Type	C	Hard Chrome					Z1	18" Integral Flexible Armored Cable	1K	0-1,000*
GT76	Standard Accuracy Unit ±1.0%	12	12 inch "A" Length	T	"T" Type	H	Hastelloy C-276	D6	Bendix 6-pin Connector	D6	Bendix 6-pin Connector	Z2	24" Integral Flexible Armored Cable	1.5K	0-1,500
				R	"RTD" Type	I	Inconel 718					D8	Bendix 8-pin connector	Z2	24" Integral Flexible Armored Cable
						N	Titanium Nitride- TiN			Z3	30" Integral Flexible Armored Cable	5K	0-5,000		
						NN	Double Coated TiN					7.5K	0-7,500		
												10K	0-10,000		
												15K	0-15,000		
								20K	0-20,000*						
												350 BAR	0-350 BAR		
												700 BAR	0-700 BAR		
												1400 BAR	0-1400 BAR		
												500 KG	0-500 Kg/cm ²		
												700 KG	0-700 Kg/cm ²		

**Other ranges available upon request.

*Special range.

TYPICAL PART NUMBER

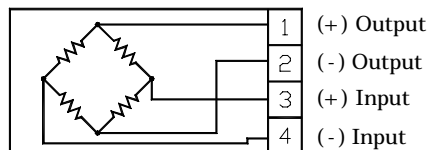
CABLE ASSEMBLY

72 04 02 -10

Cable Type		Thermocouple Type		Connector Type		Cable Length*	
72	Standard	04	No Thermocouple	02	Gentran	10	10 Feet
75	Armored	64	"J" Type	11	Bendix 8-pin (D8)	20	20 Feet
		74	"K" Type			13	Bendix 6-pin (D6)
		94	"T" Type				
		84	"RTD" Type				

*Special lengths available upon request.

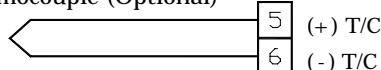
Schematic and Pin Connections (Standard)*



Cable

Green
White
Black
Red

Thermocouple (Optional)



White
Red

*D6 and D8, consult factory

Specifications: GT72 & GT76

Performance Characteristics

Standard Pressure Ranges:

0-1,500 psig, 0-3,000 psig,
0-5,000 psig, 0-10,000 psig,
0-15,000 psig, 0-350 BAR,
0-700 BAR, 0-1,400 BAR,
0-500 Kg/cm², 0-700 Kg/cm²

Special Ranges:

0-500 psig, 0-1,000 psig, 0-20,000 psig
Other ranges available upon request.

Accuracy:

GT72: ± 0.5% of full scale
maximum (BFSL)
GT76: ± 1.0% of full scale
maximum (BFSL)

Repeatability:

Within ± 0.1% of full scale maximum

Resolution:

Infinite

Overload Pressure:

150% of rated range, no damage

Electrical Characteristics

Sensor Type:

Bonded Strain-gage, 4 Leg Wheatstone
Bridge

Bridge Resistance:

350 ohms, ± 5.0%

Sensitivity:

3.0 mV/V nominal (open circuit)

Zero Balance:

± 10.0%

Excitation:

5-12 VDC or AC (RMS), maximum 15
Volts

External Shunt Calibration Resistor

Standard Feature. Options Available.

Insulation Resistance:

> 1,000 Mohms @ 50 VDC

Thermocouple:

Types J, K, T and RTD available as an
internal option

Temperature Characteristics

Diaphragm:

0 to 750°F (-18 to 400°C)

Electrical Connector:

0 to 250°F (-18 to 121°C)

Zero Drift:

± 0.01% of full scale/°F
± 0.02% of full scale/°C

Sensitivity Drift: Drift:

± 0.01% of full scale/°F
± 0.02% of full scale/°C

Mechanical Characteristics

Diaphragm Material

Standard 17-4 PH Stainless steel.
Options include Hastelloy, Hard Chrome
Plate, Inconel 718 & Titanium Nitride.

Pressure Fitting:

1/2 inch-20 UNF-2A
Metric m 18 x 1.5 optional
Custom Options Available

Dimensions

