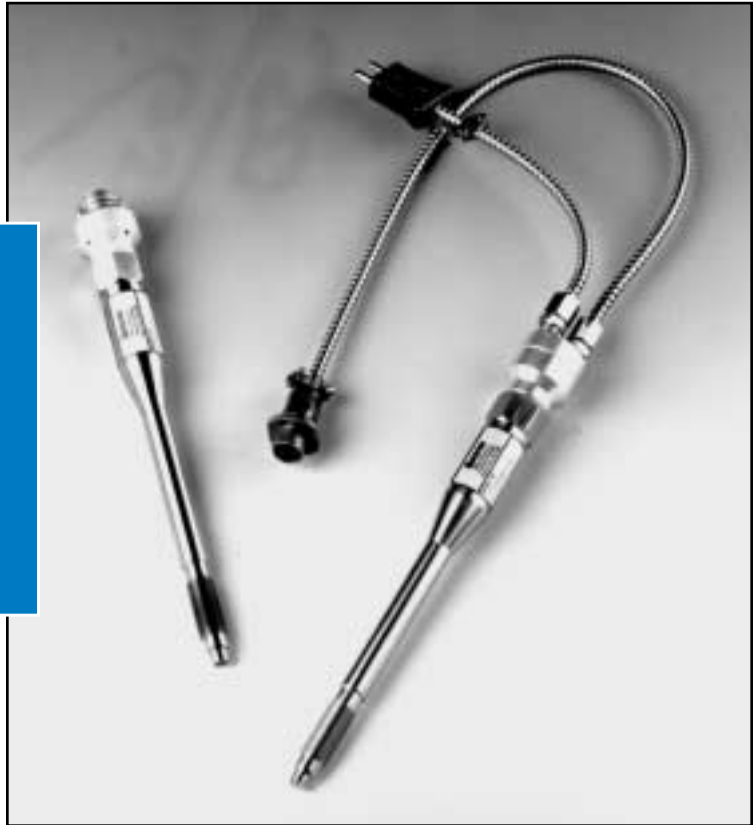


## Plastic Melt Pressure Transducers

### 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	Z3	30" Integral Flexible Armored Cable	3K	0-3,000
						N	Titanium Nitride- TiN						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 <sup>2</sup>															
700 KG	0-700 Kg/cm <sup>2</sup>															

\*\*Other ranges available upon request.

\*Special range.

## TYPICAL PART NUMBER

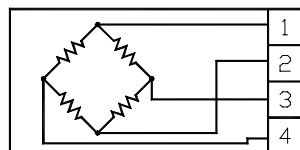
### CABLE ASSEMBLY

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			40	40 Feet
		94	"T" Type				
		84	"RTD" Type				

\*Special lengths available upon request.

#### Schematic and Pin Connections (Standard)\*

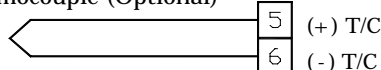


- 1 (+) Output
- 2 (-) Output
- 3 (+) Input
- 4 (-) Input

#### Cable

- Green
- White
- Black
- Red

#### Thermocouple (Optional)



- 5 (+) T/C
- 6 (-) T/C

- 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, <sup>2</sup>  
0-500 Kg/cm<sup>2</sup>, 0-700 Kg/cm<sup>2</sup>

### 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

