

**Space Saver  
Melt Pressure  
Transducer  
Model GT75**



**Precision Pressure  
Measurements**

The Gentran Model GT75 is designed to meet the highest criteria for performance in the plastics and rubber industries. This series has a non-linearity specification of  $\pm 1.0\%$  of full scale BFSL or  $\pm 0.5\%$  when the "A" option is specified. Repeatability is better than 0.1% of full scale.

**Easily Installed**

This series is installed directly into the extruder, melt pump or other pressure tap. There are no remote boxes to mount. The electrical cable is designed for easy connection and even comes with the spade lugs attached. Various cable lengths are available for your convenience.

**Versatility**

Gentran offers a variety of body lengths, thread dimensions and options for thermocouples to meet most applications. We also have the capability to custom design a special configuration to meet your needs.

**Rugged and  
Durable**

The GT75 series is designed to operate from 0 to 750 F. The diaphragm is rugged and is available in various materials for special applications. The standard diaphragm material is 17-4 PH stainless steel. Many customers find that our units will last 2-6 times longer than other units.

**Industry  
Compatible**

All Gentran products are configured to industry standards. We even offer cable connections compatible with those of Dynisco, so that you can replace a transducer without disturbing your wiring or your indicator.

# Ordering Information

## TRANSDUCER

### TYPICAL PART NUMBER

GT75		J	C		-10K
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GT75 Melt Pressure Transducer		Accuracy (Selct one)		Thermocouple Type		Diaphragm Material		Other Options		Pressure Range	
		None	± 1.0% BSFL	J	"J" Type	None	17-4 PH SST	D6	Dynisco 6 pin connector	5C	0-500*
		A	± 0.5% BSFL	K	"K" Type	C	Hard Chrome			1K	0-1,000*
						I	Inconel 718	D8	Dynisco 8 pin connector	1.5K	0-1,500
						N	Titanium Nitride- TiN			3K	0-3,000
						NN	Double Coated TiN	M	Metric thread m 18 x 1.5	5K	0-5,000
										10K	0-10,000
										15K	0-15,000

\*Consult factory measurements

## Cable Assembly

### TYPICAL PART NUMBER

72	04	30	-10
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Cable Type		Transducer Type		Connector Type		Cable Length*	
72	Standard	04	No Thermocouple	02	Gentran	10	10 Feet
75	Armored	64	"J" Type	11	Dynisco 8 pin (D8)	20	20 Feet
		74	"K" Type	13	Dynisco 6 pin (d6)	40	40 Feet

\*Special lengths available upon request.



# Specifications: GT75

## PERFORMANCE CHARACTERISTICS

Standard Ranges:

- 0-1500 psig
- 0-3000 psig
- 0-5000 psig
- 0-10000 psig
- 0-15000 psig

Special Ranges:

- 0-500 psig
- 0-1000 psig
- 0-2000 psig
- others available upon request

Non-Linearity:

- ±1.0% of full scale max (BFSL)

Repeatability:

- Within ±0.1% of full scale max

Resolution:

- Infinite

Overload Pressure:

- 150% of rated range, no damage

## TEMPERATURE CHARACTERISTICS

Diaphragm:

- 0-750 F (-18 to 400 C)

Electrical Connector:

- 0-250 F (-18 to 121C)

Zero Drift:

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

Sensitivity Drift:

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

## 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), Max 15 volts

External Shunt Calibration Resistor:

- Standard feature. Also available to be Dynisco compatible.

Insulation Resistance:

- >1000 MOhms @ 50 VDC

## MECHANICAL CHARACTERISTICS

Diaphragm Material:

- Standard 17-4 PH stainless steel.
- Others include Hard Chrome Plate, Inconel 718 & Titanium Nitride.

Pressure Fitting:

- 1/2 inch-20 UNF-2A
- Metric m 18 x 1.5 optimal

Mounting Torque:

- 10 foot-pounds min.
- 20 foot-pounds max.

Electrical Connector:

- Cannon WK6-32S

Weight:

- 0.32 lbs.

## Dimensions