



Model CT

Melt Pressure Transducer for Extrusion and Polymer Processing

Product Introduction

GT Heaters Model CT Melt Pressure Transducer incorporates a filled capillary design. This tried and proven design provides an electronic signal which is proportional to the measured pressure, and allows the transducer to operate at a process temperature up to 750°F. The electronics of each transducer is a Wheatstone Bridge - bonded strain gauge design insuring high accuracy, reliability and repeatability.

The Model CT Melt Pressure Transducer, has a 6" rigid stem along with 18" of flex capillary for optimal thermal isolation. The Model CT is the most common style melt pressure transducer configuration

General Specifications

Mechanical

Pressure Ranges: 0-1,500 psi to 0-30,000 psi
metric ranges available

Mounting: 1/2-20 UNF thread

Mounting Torque: 500 inch pounds maximum

Diaphragm: 15-5PH stainless steel

Overload Capacity: 2 times FSO

Temperatures: diaphragm 750°F
electronics 225°F

Accuracy: 0.5% FSO

Repeatability: better than 0.15% FSO

Zero Balance: +/- 10% FSO

Electrical

Type: bonded strain gauge,
4 leg Wheatstone Bridge

Bridge Resistance: 350 Ohm +/- 5%

Connector: 6 pin Bendix style bayonet

Output: 3.33 mV/Volt

Excitation Voltage: 10 Vdc - recommended

Calibration: internal 80% FSO

Insulation: 1,000 Megohms at 50 Vdc

Features

- industry standard 3.33 mV/Volt output
- internal 80% shunt calibration
- direct replacement for competitor's models utilizing the Bendix 6 pin bayonet style connector
- welded stainless steel construction
- 18" of flexible capillary for optimum thermal isolation

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Model CT with Type J Thermocouple Option:



Benefits

- significant price/performance advantage over competitor's models
- reliable, repeatable and accurate pressure measurements
- ease of calibration and installation
- optional thermocouple to provide both melt pressure and temperature measurement
- wide variety of pressure ranges
- two year warranty





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Ordering Guide

<u>Model Number</u>	<u>Transducer Style</u>
CT	rigid stem with 18" of flex capillary

	<u>Accuracy</u>
"no designation"	0.5% Accuracy - standard
DLX	0.25% Accuracy

	<u>Rigid Stem Length</u>
3	3"
6	6" - standard
12	12"

	<u>Output</u>
Q	2.0 mV/Volt
R	2.5 mV/Volt
S	3.33 mV/Volt - standard

<u>Standard Pressure Ranges</u>			
-1.5M	0 - 1,500 psi	-1CB	0 - 100 bar
-3M	0 - 3,000 psi	-2CB	0 - 200 bar
-5M	0 - 5,000 psi	-3.5CB	0 - 350 bar
-7.5M	0 - 7,500 psi	-5CB	0 - 500 bar
-10M	0 - 10,000 psi	-7CB	0 - 700 bar
-15M	0 - 15,000 psi	-1MB	0 - 1,000 bar
-20M	0 - 20,000 psi	-1.4MB	0 - 1,400 bar
-30M	0 - 30,000 psi	-2MB	0 - 2,000 bar

	<u>Common Options</u>
-8PIN	8 pin connector in place of standard 6 pin
-TCJ	Thermocouple Type "J"
-TCK	Thermocouple Type "K"
-PT100	100 Ohm Platinum RTD
-M18	M18 X 1.5 metric thread in place of 1/2-20 UNF
-FAXX	Non-Standard flex armour length (xx specify in inches)

