

## Product Introduction:

**ONEhalf20** Melt Pressure Transducers incorporate 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 process temperatures up to 750°F. The electronics of each transducer are a Wheatstone Bridge - bonded strain gauge design insuring high accuracy, reliability and repeatability.

**ONEhalf20** Melt Pressure Transducers are available in two distinct styles. The CT style melt pressure transducer, is the classic melt pressure transducer design. The CT style melt pressure transducer comprises a 6" rigid stem, along with 18" of flexible capillary, for optimal thermal isolation. The RT style melt pressure transducer, has only a 6" rigid stem, and is a rigid stem only version of the classic melt pressure transducer.

## Features:

- wide variety of pressure ranges
- significant price benefit over competitors models
- 100% form, fit and function with all competitor models utilizing the Bendix 6 pin bayonet style connector
- all welded all stainless steel sealed construction
- two accuracy grades available  
0.5% standard accuracy, or 0.25% optional



## 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%

### 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



**Ordering Guide:****Model Number**CT  
RT**Transducer Style**rigid stem with 18" flex capillary  
rigid stem only (no flex capillary)**Accuracy**"no designation"  
DLX0.5% Accuracy - standard  
0.25% Accuracy**Rigid Stem Length**3  
6  
123"  
6" - standard  
12"**Output**Q  
R  
S2.0 mV/Volt  
2.5 mV/Volt  
3.33 mV/Volt - standard**Standard Pressure Ranges**

-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

**Common Options**

-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 armor length (xx- specify in inches)

For configurations not listed please contact your local **ONEhalf20** distributor.

**Your single source for melt pressure transducers, melt pressure transmitters,  
melt pressure gauges, pressure instrumentation, and rupture disks!**