

## Product Introduction:

The **ONEhalf20** model CTNM Nozzle 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 process temperatures up to 750°F. The electronics of each transducer is a Wheatstone Bridge - bonded strain gauge design insuring high accuracy, reliability and repeatability.

The **ONEhalf20** model CTNM Nozzle Melt Pressure Transducer has been designed for space restricted areas, or for nozzle melt pressure measurement on injection molding machines. This transducer features a 1/2-20 UNF thread with jam nut and 28" of flex capillary.

## Features:

- wide variety of pressure ranges
- all welded all stainless steel sealed construction
- 100% form, fit and function with all competitor models utilizing the Bendix 6 pin bayonet style connector
- fully compatible with the industry standard wiring pattern and colour coding
- two accuracy grades available  
0.5% standard accuracy, or 0.25% optional



## General Specifications:

### Mechanical

Pressure Ranges: 0-3,000 psi to 0-30,000 psi  
metric ranges available  
Mounting: 1/2-20 UNF thread with  
jam nut  
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

### 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**

CTNM

**Transducer Style**

1/2-20 UNF thread with jam nut and 28" flex capillary

**Accuracy**"no designation"  
DLX0.5% Accuracy - standard  
0.25% Accuracy**Jam Nut Length**1  
31.5" jam nut  
3" jam nut**Output**Q  
R  
S2.0 mV/Volt  
2.5 mV/Volt  
3.33 mV/Volt - standard**Standard Pressure Ranges**

-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  
-FAxx8 pin connector in place of standard 6 pin  
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!