

ONEhalf20

Model CTO

Oil Filled Melt Pressure Transducer
Food, Packaging & Medical Processing Applications

Product Introduction

ONEhalf20 CTO Oil Filled Melt Pressure Transducer is designed specifically for food, packaging and medical processing applications. The food grade oil fill material meets the requirements of both the FDA and the USDA. This series of melt pressure transducers utilize a Wheatstone Bridge - bonded strain gauge design insuring high accuracy, reliability and repeatability.

ONEhalf20 CTO Oil Filled Melt Pressure Transducer has a 6" rigid stem along with 18" of flex capillary for optimum thermal isolation.

General Specifications

Mechanical

Pressure Ranges: 0-1,000 psi to 0-10,000 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 615°F*

electronics 225°F

Accuracy: 1.0% FSO

Repeatability: better than 0.20% FSO

Zero Balance: +/- 10% FSO

* Recommended maximum diaphragm temperature for extended product life 527°F (275°C)

Electrical

Type: bonded strain gauge,
4 leg Wheatstone Bridge

Bridge Resistance: 350 Ohm +/- 10%

Connector: 6 pin Bendix style bayonet

Output: 3.33 mV/Volt

Excitation Voltage: 10 Vdc

Calibration: internal 80% FSO

Insulation: 1,000 Megohms at 50 Vdc

Features

- industry standard 3.3 mV/Volt output
- internal 80% shunt calibration
- direct replacement for competitor's models utilizing the Bendix 6 pin bayonet style connector
- all welded all stainless steel construction

Model CTO



CTO 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
- fill material meets the requirements of both the FDA and USDA
- wide variety of pressure ranges
- two year warranty



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Ordering Guide

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

<u>Accuracy</u>	
"no designation"	1.0% Accuracy - standard

<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>			
-1M	0-1,000 psi	-70B	0 - 70 bar
-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

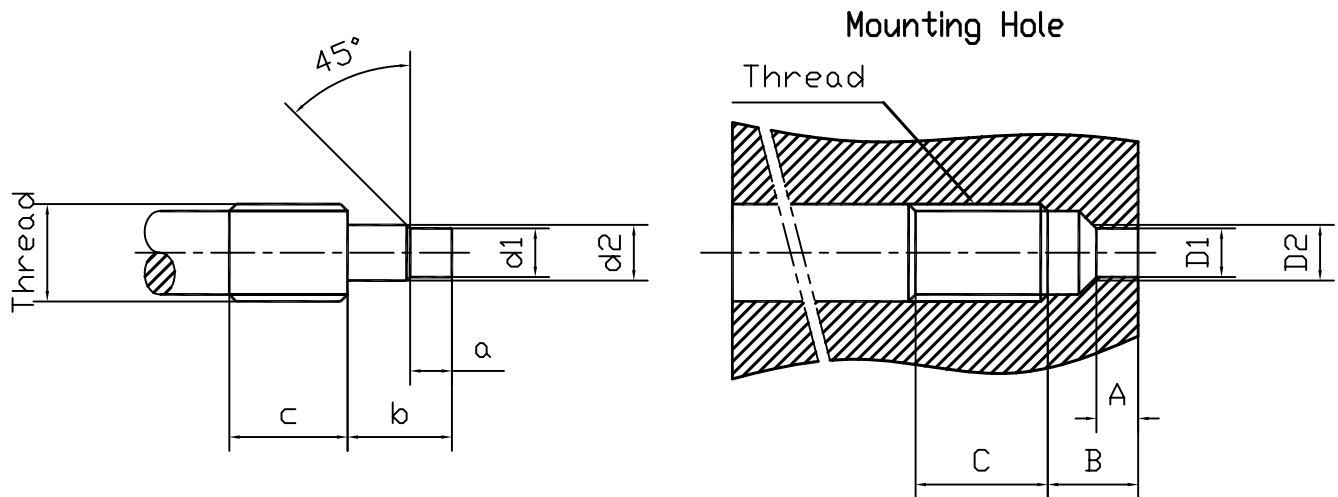
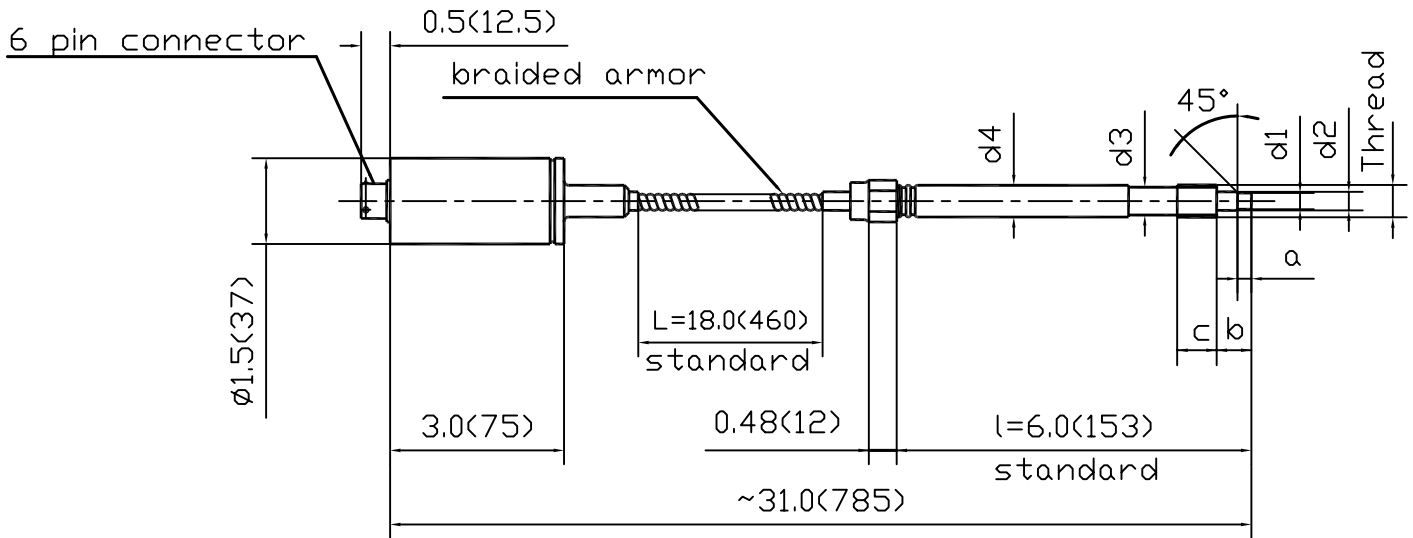
<u>Common Options</u>	
-8PIN	8 pin connector in place of standard 6 pin
-M18	M18 X 1.5 metric thread in place of 1/2-20 UNF
-TCJ	Thermocouple Type "J"
-TCK	Thermocouple Type "K"
-PT100	100 ohm platinum RTD
-FAxx	Non-Standard flex armour length (xx specify in inches)

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

North America Toll Free: 877 781-1881

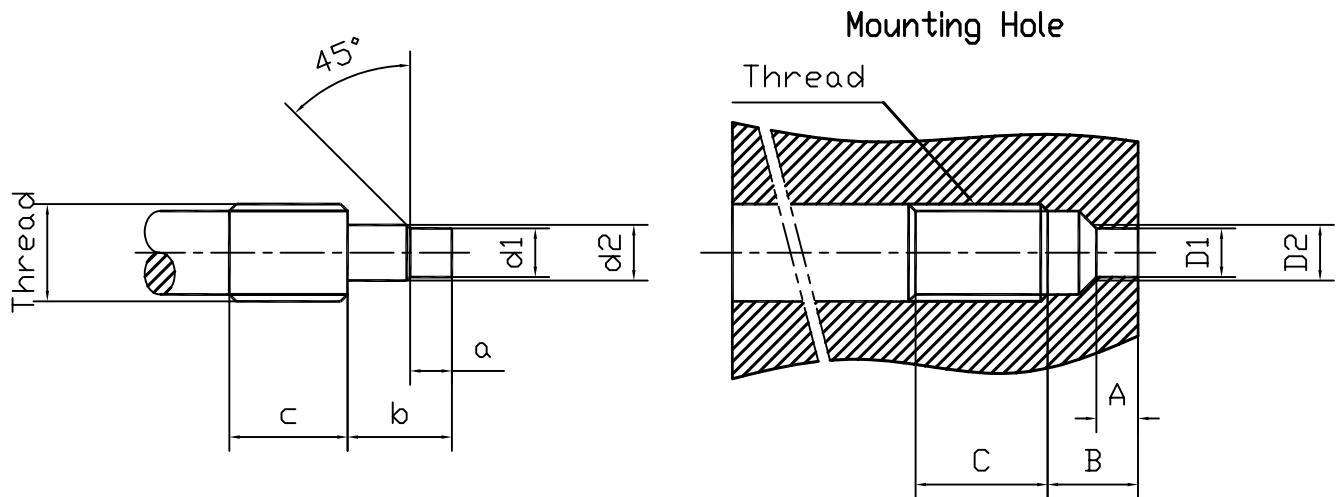
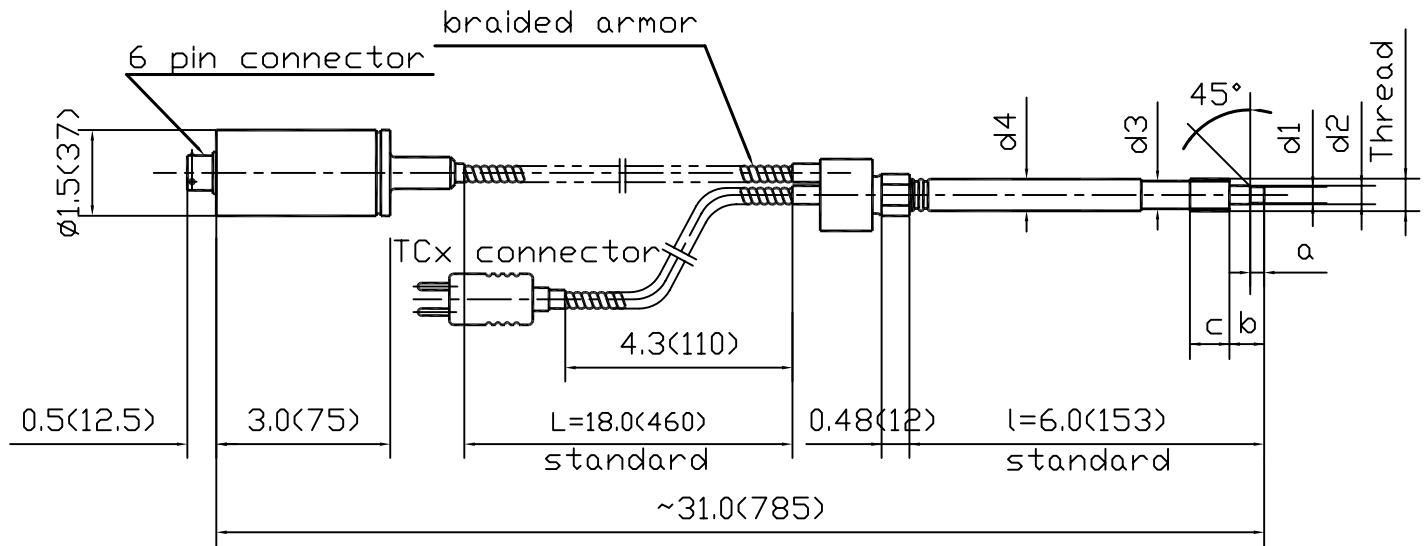
Other Locations 416 781-1881

www.onehalf20.com



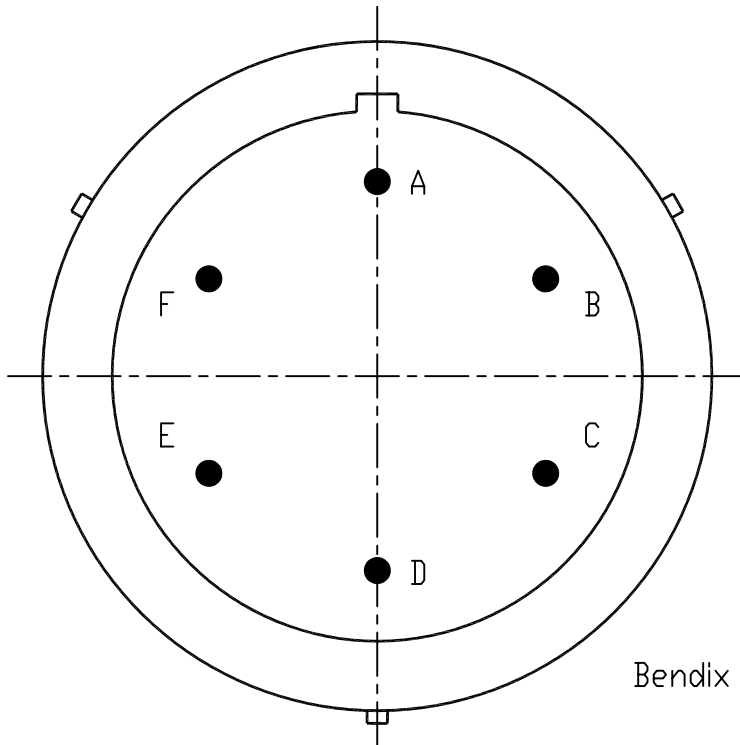
Thread	d1	d2	a	b	c	d3	d4
1/2"-20	$\phi 0.307(7.8)$ $\phi 0.303(7.7)$	$\phi 0.413(10.5)$ $\phi 0.407(10.35)$	0.217(5.5) 0.211(5.35)	0.441(11.2) 0.433(11.0)	0.629(16)	$\phi 0.41(10.5)$	$\phi 0.5(12.7)$
M14x1.5	$\phi 0.307(7.8)$ $\phi 0.303(7.7)$	$\phi 0.465(11.8)$ $\phi 0.457(11.6)$	0.217(5.5) 0.211(5.35)	0.441(11.2) 0.433(11.0)	0.708(18)	$\phi 0.47(12.0)$	$\phi 0.54(13.7)$
M18x1.5	$\phi 0.394(10.0)$ $\phi 0.386(9.8)$	$\phi 0.610(15.5)$ $\phi 0.602(15.3)$	0.236(6.0) 0.230(5.85)	0.551(14.0) 0.543(13.8)	0.787(20)	$\phi 0.63(16.0)$	$\phi 0.669(17.0)$

Thread	D1	D2	A	B	C
1/2"-20	$\phi 0.314(7.98)$ $\phi 0.312(7.92)$	$\phi 0.458(11.65)$ $\phi 0.452(11.47)$	0.225(5.72)	0.395(10.02)	0.75(19)
M14x1.5	$\phi 0.314(7.98)$ $\phi 0.312(7.92)$	$\phi 0.512(13.0)$ $\phi 0.504(12.8)$	0.225(5.72)	0.395(10.02)	0.827(21)
M18x1.5	$\phi 0.401(10.19)$ $\phi 0.399(10.13)$	$\phi 0.638(16.2)$ $\phi 0.634(16.1)$	0.242(6.15)	0.402(10.15)	1.00(25.4)



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Bendix PT02-10-6P or Equivalent

	mV/Volt Output (Excitation-10Vdc)
Pin A/Red	Signal(+)
Pin B/Black	Signal(-)
Pin C/White	Excitation(+)
Pin D/Green	Excitation(-)
Pin E/Blue	Calibration 1
Pin F/Orange	Calibration 2