Model CTO



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

Product Introduction

ONEhalf20 Model CTO Oil Filled Melt Pressure Transmitter 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 transmitter utilizes a Wheatstone Bridge - bonded strain gauge design insuring high accuracy, reliability and repeatability.

ONEhalf20 Model CTO Oil Filled Melt Pressure Transmitter 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% 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: 4-20 mA or 0-10 Vdc

Excitation Voltage: 24 Vdc

Calibration: internal 80% FSO

Insulation: 1,000 Megohms at 50 Vdc

Features

- zero and span adjustment pots for precise 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

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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



"no designation"

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Ordering Guide

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

	Rigid Stem Length
3	3"
6	6" - standard
12	12"

1.0% Accuracy - standard

	<u>Output</u>	
MA V	4-20 mA 0 -10 Vdc	

Standard Pressure Ranges						
-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			

Common Options

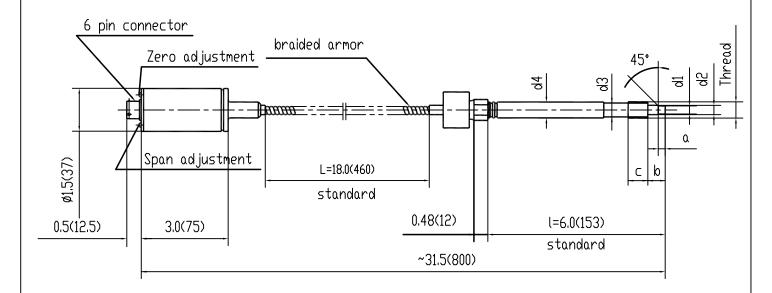
-8PIN	8 pin connector in place of standard 6 pin
-TCJ	Thermocouple Type "J"
-TCK	Thermocouple Type "K"
-PT100	100 Ohm Platinum RTD
-M18	M18 X 1.5 metric thread in place of 1/2-20 UNF
-FAxx	Non-Standard flex armour length
	(xx specify in inches)

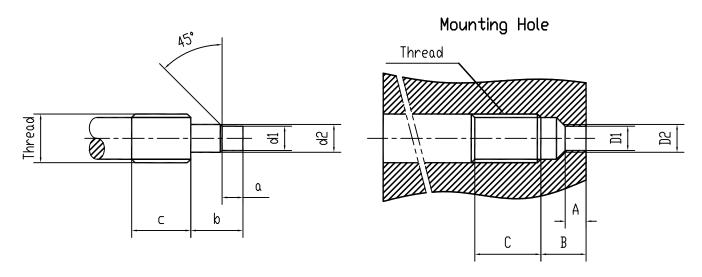
For configurations not listed please contact your local *ONEhalf20* distributor.

North America Toll Free: 877 781-1881
Other Locations 416 781-1881
www.onehalf20.com



Model: CT6(V) or (MA) Dimensional Drawing Inches(mm)





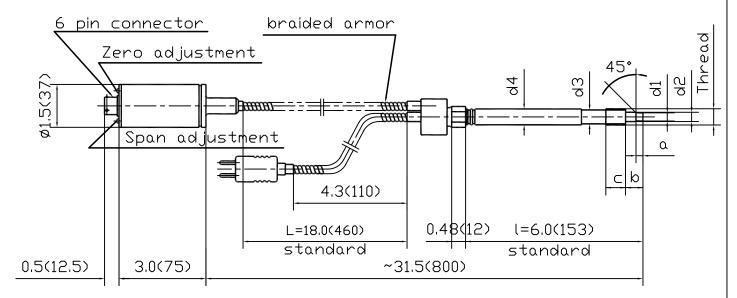
Thread	d1	d2	a	b	C	d3	d4
1/2″-20		Ø0.413(10.5)			0 629(16)	Ø0.41(10.5)	ል በ 5/12 7ነ
17 2 20	Ø0.303(7.7)	Ø0.407(10.35)	0.211(5.35)	0.433(11.0)	חיסה אלוסא	\$01711101J	*U.J(1E.//
M14×1.5	Ø0.307(7.8)	Ø0.465(11.8)	0.217(5.5)	0.441(11.2)	0.708(18)	Ø0.47(12.0)	Ø0.54(13.7)
MITALIO	Ø0.303(7.7)	Ø0.457(11.6)	0.211(5.35)	0.433(11.0)			
M18×1.5		Ø0.610(15.5)			0.707/20\	d0 < 2(1< 0)	ø0.669(17.0)
MIOXI'O	Ø0.386(9.8)	Ø0.602(15.3)	0.230(5.85)	0.543(13.8)	0.787(20)	07 0002(16.07	יחי / דו / בססיחא

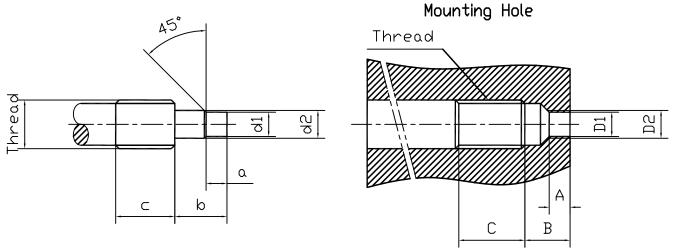
Thread	D1	D2	Α	В	С
1/2″-20	Ø0.314(7.98) Ø0.312(7.92)		0.225(5.72)	0.395(10.02)	0.75(19)
M14×1.5	Ø0.314(7.98) Ø0.312(7.92)	Ø0.512(13.0)	0.225(5.72)	0.395(10.02)	0.827(21)
M18×1.5	Ø0.401(10.19) Ø0.399(10.13)		0.242(6.15)	0.402(10.15)	1.00(25.4)

DATE: April/2005 V2.0



Model: CT6(V) or (MA)-TCx Dimensional Drawing Inches(mm)



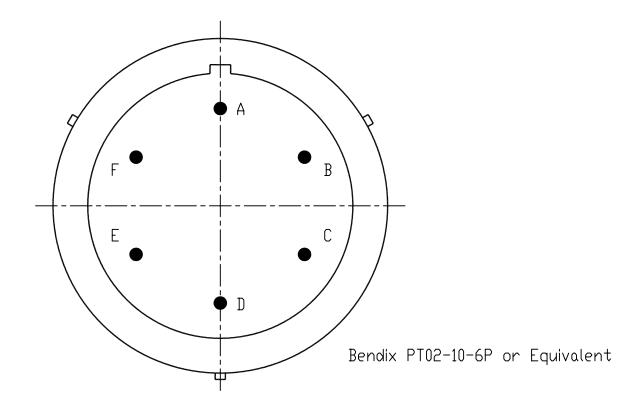


Thread	d1	d2	a	b		d3	d4
1/2"-20	Ø0.307(7.8)	Ø0.413(10.5) Ø0.407(10.35)	0.217(5.5)	0.441(11.2)	0 6 20(16)	d0 d1(10 5)	d0 5/12 7\
M14×1.5	ø0.307(7.8)	Ø0.465(11.8)	0.217(5.5)	0.441(11.2)		ø0.47(12.0)	
M18×1.5	Ø0.394(10.0)	Ø0.610(15.5)	0.236(6.0)	0.551(14.0)	0.787(20)	07/20\ 40 (2/1/ 0\	d0 660(17.0)
LITOXI'A	Ø0.386(9.8)	Ø0.602(15.3)	0.230(5.85)	0.543(13.8)		ט.יאאינבטאןי	 \\ \(\O \) \(\O \) \(\O \)

Thread	D1	D2	Α	В	С
1/2″-20	Ø0.314(7.98) Ø0.312(7.92)		0.225(5.72)	0.395(10.02)	0.75(19)
M14×1.5	Ø0.314(7.98) Ø0.312(7.92)	Ø0.512(13.0)	0.225(5.72)	0.395(10.02)	0.827(21)
M18×1.5	Ø0.401(10.19) Ø0.399(10.13)	Ø0.638(16.2)	0.242(6.15)	0.402(10.15)	1.00(25.4)

DATE: April/2005 V2.0





	mA □utput	Volt □utput
	(Excitation-24Vdc)	(Excitation-24Vdc)
Pin A/Red	Input/Signal(+)	Signal(+)
Pin B/Black	Input/Signal(-)	Signal(-)
Pin C/White	No Connection	Excitation(+)
Pin D/Green	No Connection	Excitation(-)
Pin E/Blue	Calibration 1	Calibration 1
Pin F/Orange	Calibration 2	Calibration 2

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