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# INSTALLATION INSTRUCTIONS PRESSURE TRANSDUCERS T300/T301 SERIES

## General Instructions:

Please check the model designation of the pressure transducer to ensure it is being used within its designed range. While the transducer is capable of withstanding shock and vibration, it is recommended to mount it in a vibration free location if possible. Gauge model units of 1000psi range and below are vented to atmosphere through the electrical termination. As such the electrical termination should be in an area exposed to atmospheric pressure. Please read all instructions prior to installation.

## Mechanical Installation:

Install seals or apply thread sealants to the process connection as required. Install the unit using a 24mm wrench or deep socket and tighten to the required torque for the application, never use a pipe wrench for tightening the transducer as this could affect the calibration. A list of recommended torque values is shown in table 1. The required installation torque will vary depending on the material and type of seal and/or sealant used. Do not exceed the values shown as this may cause a calibration error.

Table 1. Installation Torque

Process Connection	Installation Torque Nm	Installation Torque ft lbs	Notes
1/4" NPT male	2 - 3 T.F.F.T	2 - 3 T.F.F.T *	Sealant Required
G 1/4 male	18 - 20Nm	13 - 15 ft lbs	Seal Required
7/16-20 SAE O-ring	30 - 35Nm	22 - 26 ft lbs	O-ring included

Note! \* T.F.F.T Turns from finger tight.

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## Electrical Installation

The transducer should be wired in accordance with the information in tables 2a and 2b. It is recommended to use a shielded cable whenever possible and to ground the drain wire at the input side.

Table 2a. Electrical Pin Out

Connector	4 - 20mA		Voltage Output		
	Supply +	Supply -	Supply +	Common	Output +
M / M2	1	2	1	2	3
M12	1	3	1	3	4
CABLE	Red	Black	Red	Black	White
DR	2	1	2	1	4
DR3	A	B	A	B	C
CM	B	A	B	A	C

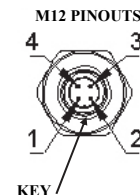


Table 2b. Electrical Supply Voltage

Electrical Output	Supply Voltage	Notes
4-20 mA	8 - 32VDC	Vmin = 8V + (0.02 x RLoop)
0 - 10V	12 - 32VDC	
0.25 - 10.25V		
0 - 5V 1 - 5V	8 - 32VDC	
0.5 - 4.5V 1 - 6V		
0.5 - 4.5V ratiometric	4.5 - 5.5VDC	

