PLASTIC MELT PRESSURE TRANSDUCER / TRANSMITTER
INSTALLATION MANUAL

MECHANICAL INSTALLATION

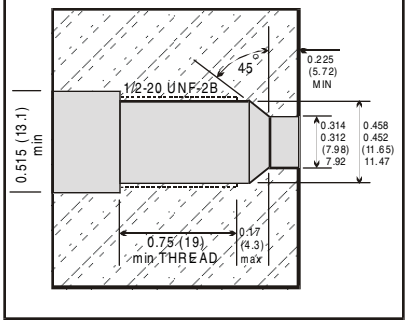
1. MOUNTING HOLE

All holes must be concentric within 0.002"
AVAILABLE DRILL KITS : See reverse

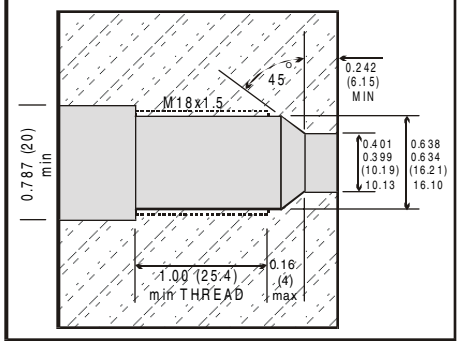
2. PROTECTIVE CAP
Leave cap on until installation - FRAGILE tip

3. LUBRICATE THREADS with EITHER :
1. NEVERSEEZ by BOSTIK
2. C5A by FELRO
3. MOLYKOTE by DOW CORNING

1/2-20 UNF-2B (STANDARD)



M18 x 1.5



4. CLEAN HOLE OF ALL PLASTIC MATERIALS
Any residue can damage tip on installation.
AVAILABLE CLEAN KITS : See reverse

5. TRANSDUCER HOUSING (Max Temp - 160°F)
Install in low vibration area.
AVAILABLE MOUNTING BRACKET: MP-BRACKET

6. MOUNTING TORQUE
MIN 150inch-lbs MAX 500inch-lbs
Install finger tight then turn 1/4 TURN with wrench

ELECTRICAL INSTALLATION

1. WIRING DIAGRAM
Depending on connector below :

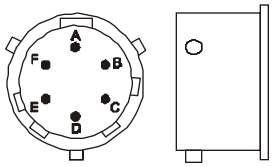
2. CABLE+GROUND (26AWG, 6WIRE, SHIELD)
Shield may have to be connected to ground in a high noise environment. Do not connect to meter.

3. ZERO ADJUSTMENT
To compensate for pressure drift caused by temp changes. At operating temperature with no pressure on transducer, adjust the pressure indicating device to read "0"

4. SPAN ADJUSTMENT
To calibrate readout device to transducer.
Press "CALIBRATE" and adjust reading to read 80% SPAN.

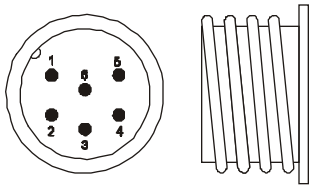
TRANSDUCER - 3.3 or 2.5mV/V

6 PIN BAYONET



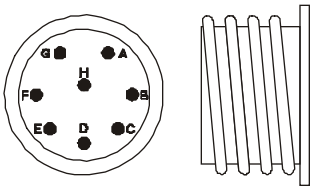
LEAD	COLOR	6 PIN
SIGNAL+	RED	A
SIGNAL-	BLACK	B
EXCITATION+	WHITE	C
EXCITATION-	GREEN	D
CALIBRATION	BLUE	E
CALIBRATION	ORANGE	F

6 PIN SCREW



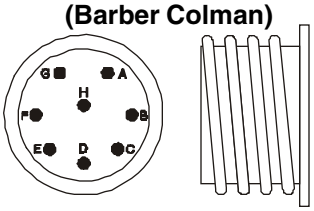
LEAD	COLOR	6 PIN
EXCITATION+	WHITE	1
EXCITATION-	GREEN	2
SIGNAL-	BLACK	3
SIGNAL+	RED	4
NOT USED		5
NOT USED		6

8 PIN SCREW



LEAD	COLOR	8 PIN
EXCITATION+	WHITE	A
SIGNAL+	RED	B
EXCITATION-	GREEN	C
SIGNAL-	BLACK	D
CALIBRATION	BLUE	E
CALIBRATION	ORANGE	F
NOT USED		G
NOT USED		H

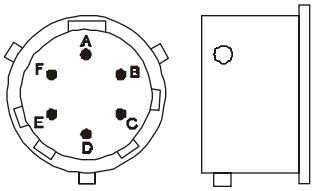
8 PIN SCREW (Barber Colman)



LEAD	COLOR	8 PIN
EXCITATION+	WHITE	A
SIGNAL+	RED	B
SIGNAL-	BLACK	C
EXCITATION-	GREEN	D
CALIBRATION	BLUE	E
CALIBRATION	BROWN	F
NOT USED		G
NOT USED		H

TRANSMITTER - 4-20mA or VOLTAGE

6 PIN BAYONET



4-20mA OUTPUT

LEAD	COLOR	6 PIN
SUPPLY/SIGNAL+	RED	A
SUPPLY/SIGNAL-	BLACK	B
N/A	WHITE	C
N/A	GREEN	D
CALIBRATION	BLUE	E
CALIBRATION	ORANGE	F

VOLTAGE OUTPUT
0-5, 1-5, 0-10VDC

LEAD	COLOR	6 PIN
SIGNAL+	RED	A
SIGNAL-	BLACK	B
EXCITATION+	WHITE	C
EXCITATION-	GREEN	D
CALIBRATION	BLUE	E
CALIBRATION	ORANGE	F

GENERAL OPERATIONAL GUIDES

1. START UP

Before starting the extruder drive, ensure that the extruder is at operational temperature and plastic at tip is molten.
A cold start can literally rip off the fragile diaphragm.

2. REMOVAL

Only remove transducer when barrel is at operational temperature and zero pressure.
Always clean hole of all solids before re-installing.
Check hole dimensions with thread gauge of cleaning kit to ensure proper hole. Hole size at tip can reduce over time.
Always remove transducer before cleaning inside barrel with abrasive cleaner or wire brush.

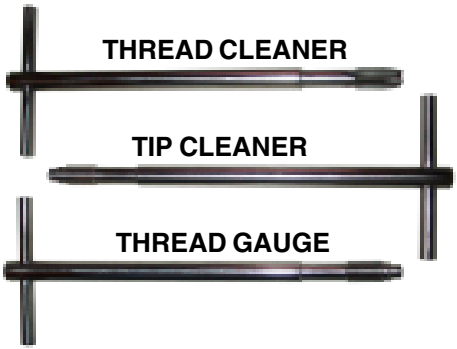
3. CLEANING TIP

Clean tip lightly with a dry cloth while tip is still hot.
Do not use any sharp tools (screwdriver, chisel, knife, wire brush etc.)

TROUBLESHOOTING

1.	**INDICATOR FULL SCALE**	CHECK CONTINUITY OF CABLES
2.	**INDICATOR UNSTABLE READING**	CHECK CONTINUITY OF CABLES
3.	**INDICATOR READS ONLY "0"**	PERFORM CALIBRATION. IF DOESN'T CHANGE - SEND INSTRUMENT TO MPI FOR ANALYSIS
4.	**INDICATES WRONG PRESSURE**	PERFORM CALIBRATION IF STILL INCORRECT - SEND TRANSDUCER TO MPI FOR ANALYSIS

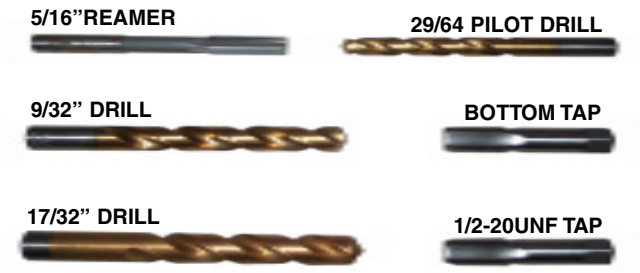
HOLE CLEANING KIT



PART # MP-CLEAN-1/2

Kit is used to clean transducer hole before insertion to prevent diaphragm damage.

HOLE CUTTING KIT



PART # MP-CUT-1/2

All the Drills, Reamers and Taps required to drill a proper hole for standard transducers (1/2-20UNF).

REPRESENTATIVE