

## MELT PRESSURE AND TEMPERATURE TRANSMITTER

### Special Features:

- Low Cost OEM
- Wide Temperature Range
- Crevice Free Stainless Steel Construction
- No Seals or O-Rings
- Compact Version
- Surge Protection, Reverse Voltage Protection to 36V DC



### Applications:

MT1300 Can Be Used In Various Plastic Estrusion Line For Pressure Measuring And Control, Such As Chemical Fibre Manufacturing Equipment, Plastic Rubber Machine, Polyester Equipment And Petrochemical Applications.

### Performance Specifications:

|                       |                                                     |
|-----------------------|-----------------------------------------------------|
| Pressure Range        | : 35 Bar ~ 1500 Bar                                 |
| Accuracy              | : $\pm 0.25\%$                                      |
| Operating Temp.       | : - 40°C to 250°C                                   |
| Compensated Temp.     | : - 20°C to 200°C                                   |
| Proof Pressre         | : 2X                                                |
| Burst Pressure        | : 5X                                                |
| Electrical Connection | : 5 Pin Bendix Connector with Mating Plug and Cable |
| Input Voltage         | : 10 VDC ; 24 VDC                                   |
| Pressure Output       | : 3.33mV/V , 2mV/V ; 4-20 mA , 0-10V , 0-5V         |
| Temperature Output    | : J / K / E / Pt-100                                |

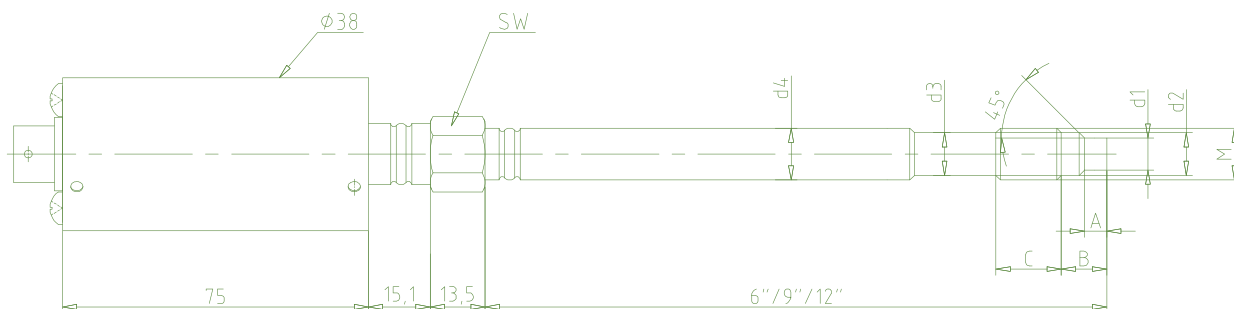
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|---------------------|----------------------------------------------|
| Wetted Parts        | : AISI 316L SS                               |
| Diaphragm           | : AISI 316L SS                               |
| Case                | : AISI 316L SS                               |
| Connector           | : Nylon 6/6                                  |
| Media Compatibility | : All Materials compatible with AISI 316L SS |
| Protection          | : IP 65                                      |

### Standard Ranges:

| RANGE (PSI) | RANGE (BAR) |
|-------------|-------------|
| 0/500       | 0/35        |
| 0/1000      | 0/70        |
| 0/1500      | 0/100       |
| 0/2000      | 0/150       |
| 0/3000      | 0/200       |
| 0/3750      | 0/250       |
| 0/4500      | 0/300       |
| 0/5000      | 0/350       |
| 0/6000      | 0/400       |
| 0/7500      | 0/500       |
| 0/9000      | 0/600       |
| 0/10000     | 0/700       |
| 0/15000     | 0/1000      |
| 0/20000     | 0/1500      |

## MELT PRESSURE AND TEMPERATURE TRANSMITTER

### ⚙️ Dimensions:



| M         | d1    | d2     | d3     | d4     | A   | B    | C  | SW | 6"  | 9"  | 12" |
|-----------|-------|--------|--------|--------|-----|------|----|----|-----|-----|-----|
| 1/2-20UNF | φ 7.8 | φ 10.5 | φ 10.5 | φ 12.7 | 5.4 | 11.2 | 16 | 16 | 152 | 230 | 305 |
| M14×1.5   |       | φ 11.8 | φ 11.8 | φ 13.5 |     |      |    |    |     |     |     |
| M18×1.5   |       | φ 9.8  | φ 15   | φ 15.5 |     |      | 20 | 22 |     |     |     |

## HOW TO ORDER

### ⚙️ Basic Model:

|   |          |   |           |   |          |     |
|---|----------|---|-----------|---|----------|-----|
| 2 | 4 - 20mA | 3 | 1 to 5V   | 4 | 0 to 10V | M13 |
| 5 | 0 to 5V  | 7 | 3.33 mV/V | 8 | 2mV/V    | 2   |

### ⚙️ Process Connection:

|   |               |   |           |   |
|---|---------------|---|-----------|---|
| 6 | 1/2" - 20 UNF | 7 | M18 x 1.5 | 6 |
|---|---------------|---|-----------|---|

### ⚙️ Stem Length:

Please Specify the rigid stem length in inches

### ⚙️ Pressure Range:

Please Refer to the range table

### ⚙️ Units:

|   |     |   |
|---|-----|---|
| B | Bar | B |
| P | Psi |   |

### ⚙️ Pressure Type:

|   |                |   |
|---|----------------|---|
| G | Gauge Pressure | G |
|---|----------------|---|

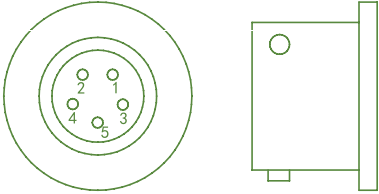
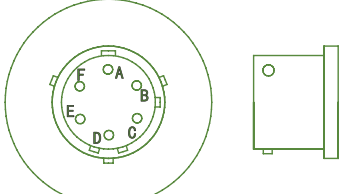
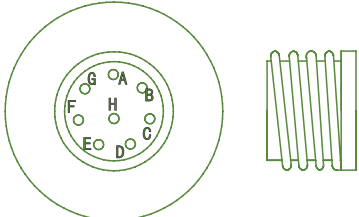
### ⚙️ Temperature Output:

|   |                     |   |                     |   |
|---|---------------------|---|---------------------|---|
| J | J Type Thermocouple | K | K Type Thermocouple | K |
| E | E Type Thermocouple | R | PT-100              |   |

Ordering Example : MT13 - 2 - 6 - 6 - 350 - G - K

## MELT PRESSURE AND TEMPERATURE TRANSMITTER

### Connections:

| Output                                  | Function     | Color       | 5PIN |    |
|-----------------------------------------|--------------|-------------|------|--------------------------------------------------------------------------------------|
| 0/5V, 0/10V;<br>2.0mV/V,<br>3.33mV/0056 | Signal +     | Blue        | 1    |                                                                                      |
|                                         | Excitation + | Red         | 2    |                                                                                      |
|                                         | Signal -     | White       | 3    |                                                                                      |
|                                         | Excitation - | Yellow      | 4    |                                                                                      |
|                                         | Calibration  | Black       | 5    |                                                                                      |
| Output                                  | Function     | Color       | 5PIN |                                                                                      |
| 4/20mA                                  | Signal+      | Blue        | 1    |                                                                                      |
|                                         | Excitation+  | Red         | 2    |                                                                                      |
|                                         | Calibration  | Yellow      | 4    |                                                                                      |
|                                         | Calibration  | Black       | 5    |                                                                                      |
| Output                                  | Function     | Color       | 6PIN |   |
| 0-5V;0-10V;<br>3.33mV/V                 | Signal +     | Blue        | A    |                                                                                      |
|                                         | Signal -     | Green       | B    |                                                                                      |
|                                         | Excitation + | Red         | C    |                                                                                      |
|                                         | Excitation - | Yellow      | D    |                                                                                      |
|                                         | Calibration  | Brown       | E    |                                                                                      |
|                                         | Calibration  | Black       | F    |                                                                                      |
| Output                                  | Function     | Color       | 6PIN |                                                                                      |
| 4-20mA                                  | E+ / S+      | Red         | A    |                                                                                      |
|                                         | E- / S-      | Blue        | B    |                                                                                      |
|                                         | Calibration  | Yellow      | E    |                                                                                      |
|                                         | Calibration  | Black       | F    |                                                                                      |
| Output                                  | Function     | Color       | 8PIN |  |
| 0-5V;0-10V;<br>3.33mV/V                 | Excitation + | Red         | A    |                                                                                      |
|                                         | Signal +     | Blue        | B    |                                                                                      |
|                                         | Excitation - | Yellow      | C    |                                                                                      |
|                                         | Signal -     | Green/White | D    |                                                                                      |
|                                         | Calibration  | Brown       | E    |                                                                                      |
|                                         | Calibration  | Black       | F    |                                                                                      |
|                                         | Blank        | --          | G, H |                                                                                      |
| Output                                  | Function     | Color       | 8PIN |                                                                                      |
| 4-20mA                                  | E+ / S+      | Red         | A    |                                                                                      |
|                                         | E+ / S+      | Blue        | B    |                                                                                      |
|                                         | Calibration  | Yellow      | E    |                                                                                      |
|                                         | Calibration  | Black       | F    |                                                                                      |

### Installation:

