



PT115&PT125&PT135 Series Melt Pressure Transmitter

with Digital Display



Features

- signal output:4~20mA
- accuracy grade: $\pm 0.5\%$ F.S
- special diaphragm coating
- IP65 ingress protection
- four-digit display
- 80% internal calibration

Applications

chemical fiber industry
injection molding industry

Description

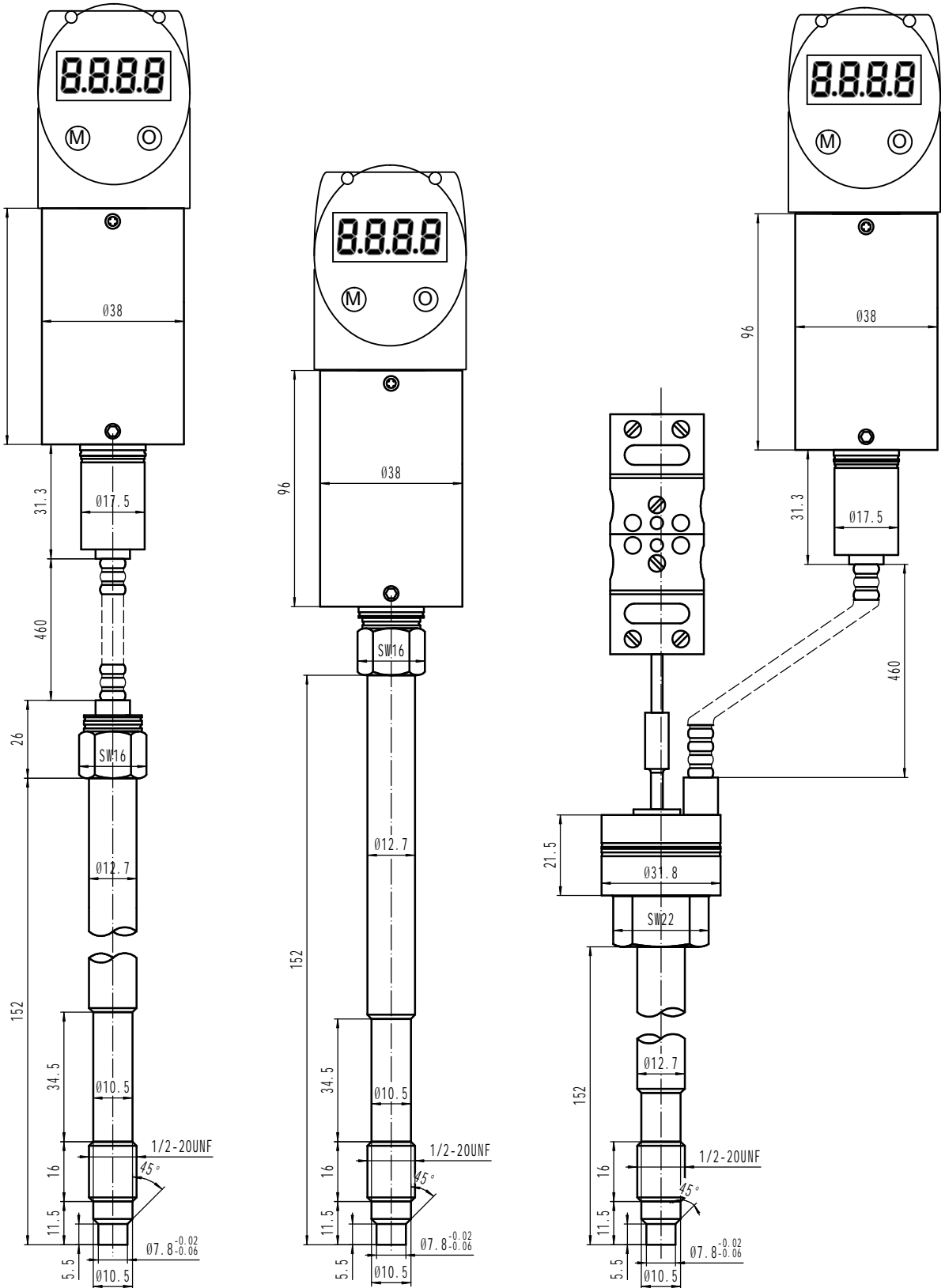
Melt pressure transmitter with digital display is designed to measure at high temperature in the injection molding industry and chemical fiber industry, special diaphragm material and highly anti-abrasive coating of which enable it to work normally at high temperature up to 400°C. This series adopts threaded connection and digital display with relay output available. This series is characterized by high stability and long lifespan.

Technical Parameters

| | | | |
|--------------------------------------|---|---------------------------|------------------------|
| Input Voltage | 24VDC(12~36VDC) | Bridge Resistance | 350Ω |
| Output Signal | 4~20mA | Diaphragm Material | 17-4PH |
| Accuracy Grade | $\pm 0.5\%$ F.S | Diaphragm Temp | 400°C |
| Pressure Range | 0~3.5MPa,0~200MPa | E-Connection | M12 aviation connector |
| Pressure Unit | MPa | Mounting Torque | 40N.m Max |
| Overload Capacity | 1.5 times rated pressure | Process Connection | 1/2-20UNF |
| Zero Temp Drift | 0.003MPa/°C | Protection Level | IP65 |
| Electrical Environmental Temp | -20~85°C | Temp Measurement | E,J,K type or Pt100 |
| Alarm Type | optocoupler output,relay output,transistor output | | |

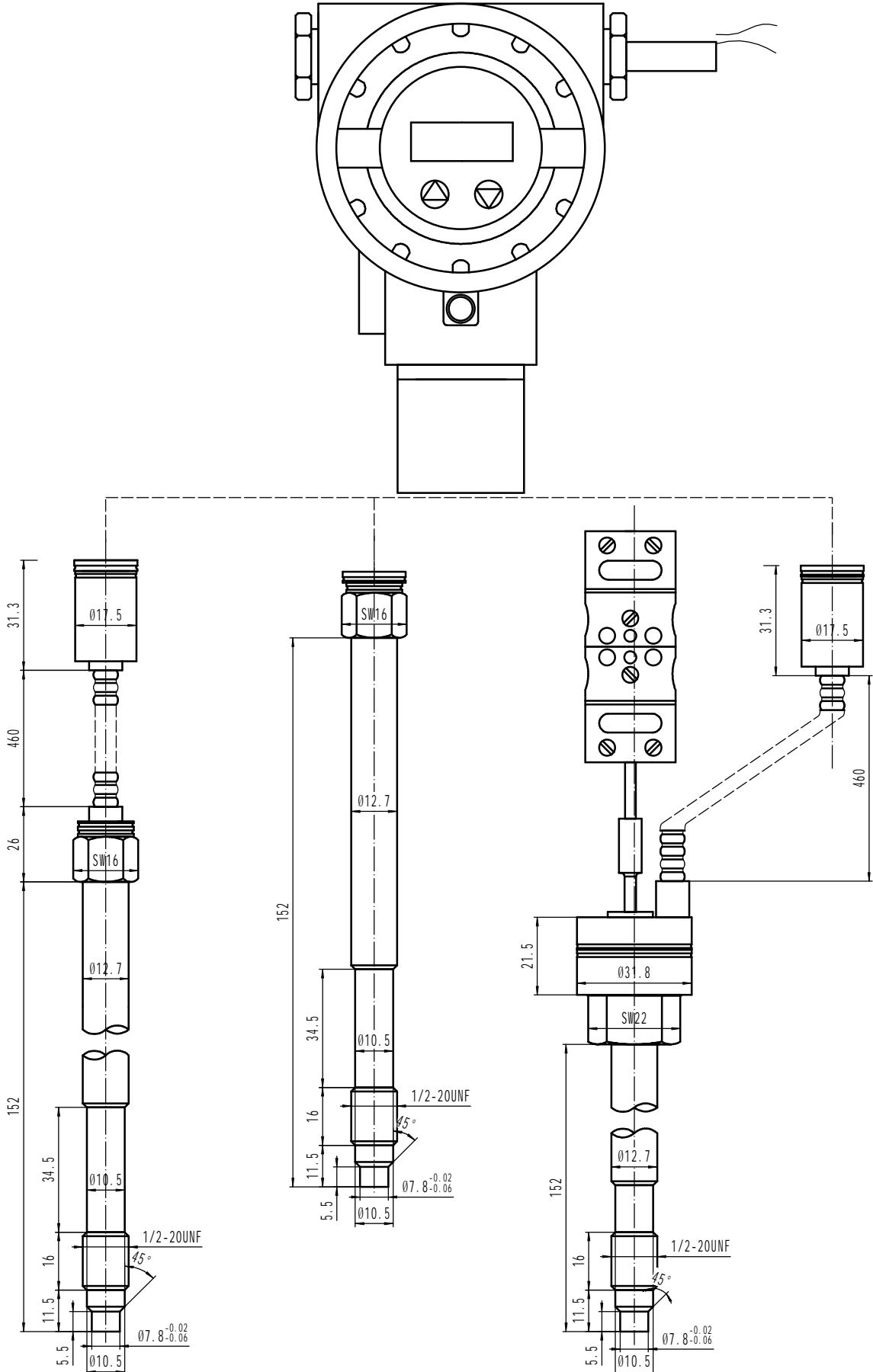


External Dimension





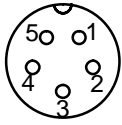
External Dimension





E-Connection

5-PIN Standard Aviation Connector

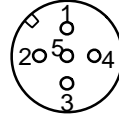


plug

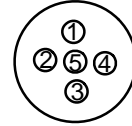


receptacle

M12 Standard Aviation Connector



plug



receptacle

Non-Alarm Output Type

| Port | Wiring Definition |
|------|-----------------------|
| 1 | DC24V input |
| 2 | blank |
| 3 | GND grounding wire |
| 4 | blank |
| 5 | 4~20mA current output |

Alarm Output Type

| Port | Wiring Definition |
|------|-----------------------|
| 1 | DC24V input |
| 2 | A1 alarm port |
| 3 | GND grounding wire |
| 4 | A2 alarm port |
| 5 | 4~20mA current output |



Ordering Guide

| Series Code | PT | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
|---------------------------------|---|-----|-----|------|-----|----|----|----|------|---|---|----|----|---|-------|
| Product Type | rigid stem type | 115 | | | | | | | | | | | | | |
| | flexible type | 125 | | | | | | | | | | | | | |
| | double measurement type | 135 | | | | | | | | | | | | | |
| Digital Display | compact digital head | | LX | | | | | | | | | | | | |
| | I.S 2088 housing with digital head | | FX | | | | | | | | | | | | |
| | I.S 2088 housing without digital head | | FN | | | | | | | | | | | | |
| Pressure Range | 3.5MPa 35bar 500psi | | | 5C | | | | | | | | | | | |
| | 5MPa 50bar 750psi | | | 7.5C | | | | | | | | | | | |
| | 7MPa 70bar 1000psi | | | 1M | | | | | | | | | | | |
| | 10MPa 100bar 1500psi | | | 1.5M | | | | | | | | | | | |
| | 20MPa 200bar 3000psi | | | 3M | | | | | | | | | | | |
| | 35MPa 350bar 5000psi | | | 5M | | | | | | | | | | | |
| | 50MPa 500bar 7500psi | | | 7.5M | | | | | | | | | | | |
| | 70MPa 700bar 10000psi | | | 10M | | | | | | | | | | | |
| | 100MPa 1000bar 15000psi | | | 15M | | | | | | | | | | | |
| | 140MPa 1400bar 20000psi | | | 20M | | | | | | | | | | | |
| 200MPa 2000bar 30000psi | | | 30M | | | | | | | | | | | | |
| Process Connection | 1/2-20UNF | | | | 1/2 | | | | | | | | | | |
| | M14×1.5 | | | | M14 | | | | | | | | | | |
| | M18×1.5 | | | | M18 | | | | | | | | | | |
| | 82.6 flange | | | | 8F | | | | | | | | | | |
| | 66.8 flange | | | | 6F | | | | | | | | | | |
| Rigid Stem Length | 5 inches (127mm) (for 82.6 flange process connection) | | | | | 5 | | | | | | | | | |
| | 6 inches (152mm) (for 66.8 flange process connection) | | | | | 6 | | | | | | | | | |
| | 9 inches (229mm) | | | | | 9 | | | | | | | | | |
| | 12.5 inches (318mm) | | | | | 12 | | | | | | | | | |
| | 15 inches (381mm) | | | | | 15 | | | | | | | | | |
| | 18 inches (460mm) | | | | | 18 | | | | | | | | | |
| Flexible Length | 18 inches (460mm) | | | | | | 18 | | | | | | | | |
| | 24 inches (610mm) | | | | | | 24 | | | | | | | | |
| | 30 inches (760mm) | | | | | | 30 | | | | | | | | |
| Signal Output | 4~20mA+H (not for LX series) | | | | | | | H | | | | | | | |
| | 4~20mA | | | | | | | MA | | | | | | | |
| Temp. Measurement | J type | | | | | | | | J | | | | | | |
| | K type | | | | | | | | K | | | | | | |
| | E type | | | | | | | | E | | | | | | |
| | three wire Pt100 RTD | | | | | | | | RTD1 | | | | | | |
| Alarm Type (only for LX series) | None | | | | | | | | | | | N0 | | | |
| | photocoupler output(20mA current output driving relay of 16A current at most) | | | | | | | | | | | N1 | | | |
| | relay PNP output (1A current at most) | | | | | | | | | | | N2 | | | |
| | relay NPN output (1A current at most) | | | | | | | | | | | N3 | | | |
| | transistor PNP output (250mA current at most) | | | | | | | | | | | N4 | | | |
| | transistor NPN output (250mA current at most) | | | | | | | | | | | N5 | | | |
| E-Connection | M12 connector (only for LX series) | | | | | | | | | | | | I5 | | |
| | lead wire x meters (not for LX series) | | | | | | | | | | | | MX | | |
| Diaphragm Material | 17-4PH(standard) | | | | | | | | | | | | | | blank |
| | Hastelloy diaphragm (anti-corrosive type) | | | | | | | | | | | | | | C2 |
| | inconel 718(anti-abrasive type) | | | | | | | | | | | | | | I7 |
| | 17-4PH thickening diaphragm | | | | | | | | | | | | | | T2 |