



# ***IPT258MA or V***

## ***Melt Pressure & Temperature Indicator***

### ***4-20mA or 0-10Vdc process & thermocouple input***

#### **Product Introduction**

The GT Heaters IPT258 Melt Pressure and Temperature Indicator with 4-20mA or 0-10Vdc and thermocouple input features dual 5 digit simultaneous display of process melt pressure and temperature in a compact 1/8 DIN panel mount configuration. The IPT258 is available with up to three fully programmable alarms for either pressure or temperature, 4-20mA or 0-10Vdc process pressure value re-transmission, and MODbus communications.

The IPT258 Melt Pressure and Temperature Indicator offers enhanced user functionality with front panel buttons for Zero, Peak, and Manual Alarm Reset. The IPT258 offers a large 0.5" LED display for process melt pressure indication and a lower 0.4" display which can be configured to indicate melt temperature, pressure units or alarm SP values.

#### **Features**

- 4-20mA or 0-10Vdc & thermocouple input
- pushbutton or Windows based programming
- 5 digit display with 1 psi and 1° resolution
- multifunctional lower display
- selectable units, psi, bar, Kg/cm<sup>2</sup>, MPa, °C, °F
- automatic peak detection and display
- built-in 20Vdc transmitter power supply
- MODbus communications option

#### **Benefits**

- simultaneous pressure & temperature readings
- easy to use
- quick and simplified calibration procedure
- Auto-Zero button
- digital display filter
- analog re-transmission
- save panel space with the compact size
- recall melt pressure & temperature extremes
- two levels of password protection

#### **Specifications**

##### **Performance Characteristics**

**Type:** microprocessor based panel meter  
**Display:** dual 5 digit, PV=0.5", SV=0.4"  
**Beacons:** 6 LED's, AL1, AL2, AL3, RST, CAL, A/B  
**Termination:** 20 screw terminals on rear  
**Dimensions:** 1/8 DIN (48 H x 96 W x 110 D)  
**Accuracy:** +/- 0.1% of full scale with shunt calibration  
**Sampling Time:** 40ms  
**Operating Temperature:** 0°C - 60°C  
**Retransmission:** 4-20 mA or 0-10Vdc  
**Output Resolution:** 14 bits

**IPT258MA or IPT258V**



##### **Electrical**

**Input:** either 4-20mA or 0-10Vdc process input & Type J, K, or E thermocouple

**Transmitter Power Supply:** 20 Vdc

**Input Power:** 85-264 Vac (24 Vdc available)

**Calibration:** shunt resistor or applied pressure

**Shunt Calibration Range:** 60-100%

**Display:** keyboard configurable

**Resolution:** 1 psi and 0.1 or 1.0 °C/°F

**Zero Balance:** +/- 25% full scale

**Alarms:** 0, 1, 2, or 3

**Alarm Type:** Pressure or Temperature, High or Low setpoints, direct or reverse acting, automatic or manual reset

**Main Alarm Output:** SPDT, NO and NC

**2nd & 3rd Alarm Output:** SPST, NO

**Serial Communications:** RS-485

**Communication Protocol:** MODbus

**Communication Baud Rate:** 1200-38400 BPS

**Communication Format:** 8 bits + parity or none





# ***IPT258MA or V***

## ***Melt Pressure & Temperature Indicator***

***4-20mA or 0-10Vdc process & thermocouple input***

### Ordering Guide

<b><u>Model Number</u></b> IPT258	<b><u>Style</u></b> 1/8 DIN panel mount (96 X 48mm)
	<b><u>Process Input</u></b> MA 4-20 mA (0 - 20mA) V 0 - 10 Vdc HV 1 - 5 Vdc
	<b><u>Alarms (Pressure or Temperature)</u></b> -0 no alarms, indicator only -1 1 alarm -2 2 alarms -3 3 alarms
	<b><u>Retransmission</u></b> O no retransmission signal R 4-20 mA V 0 - 10 Vdc
	<b><u>Options</u></b> -W 24 Vdc power supply -C MODbus communications

