



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, Kgf/cm², 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

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

