



IP 258

Melt Pressure Indicator

strain gauge input

Product Introduction

The GT Heaters IP258 Melt Pressure Indicator with strain gauge input and dual 5 digit display features high accuracy with simplicity of operation. The IP258 is available with up to three programmable alarms, 4-20mA or 0-10Vdc process value re-transmission, and MODbus communications.

The IP258 Melt Pressure Indicator offers enhanced user functionality with front panel buttons for Zero, Peak, and Manual Alarm Reset. The IP258 Melt Pressure Indicator is a compact 1/8 DIN (96 x 48 mm) package with a large 0.5 inch LED display for melt pressure indication. The lower 0.4 inch display can be configured to indicate units of measure or alarm SP values.

Features

- 350 Ohm strain gauge input
- pushbutton or Windows based programming
- true 5 digit display with 1 psi resolution
- 1/8 DIN size (96mm x 48mm)
- multifunctional lower display
- user selectable units, psi, bar, Kgf/cm², MPa
- automatic peak detection and display
- built-in transducer excitation voltage
- MODbus communications option

Benefits

- direct accurate pressure 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 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



Electrical

Input: one 350 Ohm strain gauge bridge sensor

Bridge Excitation: 5 Vdc

Sensitivity: 2.0 - 4.0 mv/Volt auto sensed

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

Zero Balance: +/- 25% full scale

Alarms: 0, 1, 2, or 3

Alarm Type: High & 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

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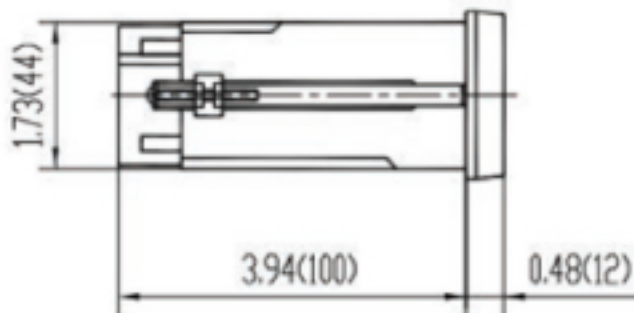
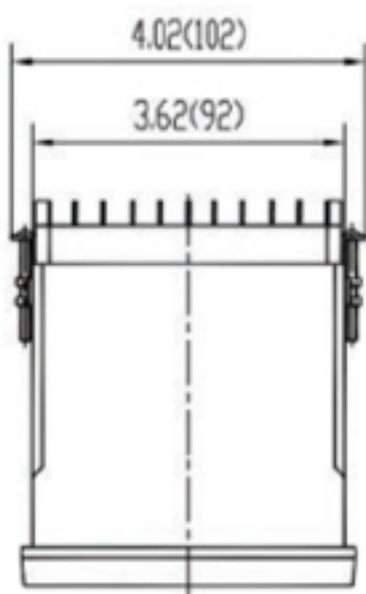
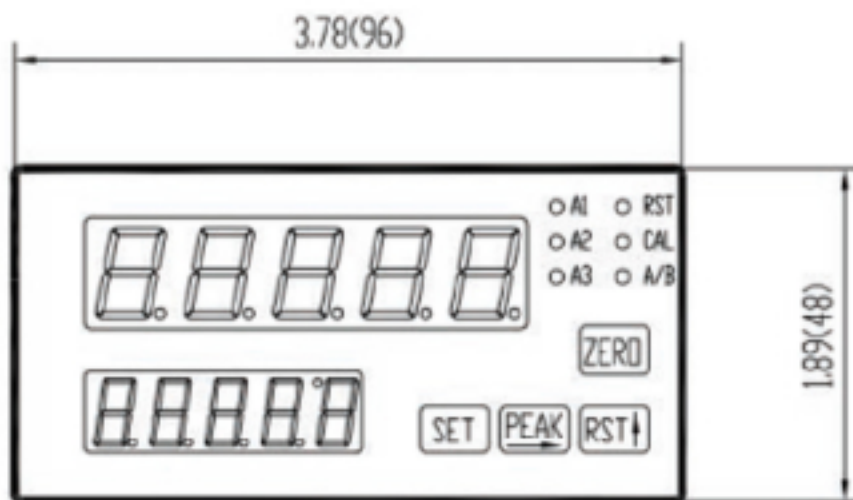
strain gauge input

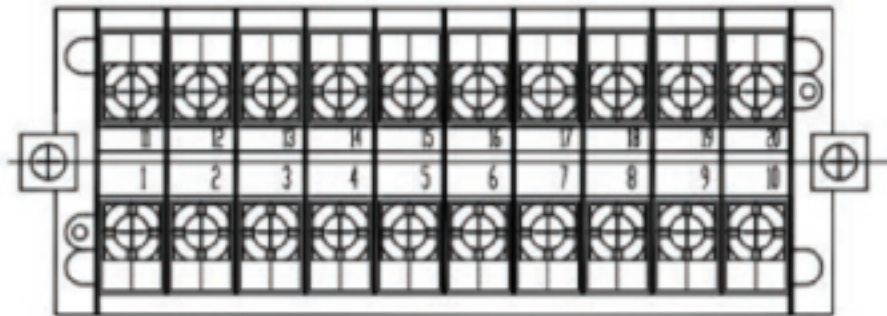
Ordering Guide

<u>Model Number</u>	<u>Style</u>
IP258	1/8 DIN panel mount (96 X 48mm)
	<u>Alarms</u>
-0	no alarms, indicator only
-1	1 alarm
-2	2 alarms
-3	3 alarms
	<u>Retransmission</u>
O	no retransmission signal
R	4-20 mA
V	0 - 10 Vdc
	<u>Options</u>
-W	24 Vdc power supply
-C	MODBUS communications



Model: IPT258
Dimensional Drawing Inches(mm)





IP258 Wiring Diagram Power=(AC 100-240V)

RS485 -B	RS485 +A	AL3 N/D	AL2 N/D	AL1 N/D	Alarm Com	AL1 N/C	VAC 100/240	LN	Ground ⊥
11	12	13	14	15	16	17	18	19	20
1	2	3	4	5	6	7	8	9	10
Signal+ Red	Signal- Black	Exc+ White	Exc-/Com Green/Blue	Cal Orange			_RST_ Input	Re-trans mA+ V+	Re-trans mA- V-

IP258 -W Wiring Diagram Power=(DC 24V)

RS485 -B	RS485 +A	AL3 N/D	AL2 N/D	AL1 N/D	Alarm Com	AL1 N/C	+24V (DC)	0V (DC)	Ground ⊥
11	12	13	14	15	16	17	18	19	20
1	2	3	4	5	6	7	8	9	10
Signal+ Red	Signal- Black	Exc+ White	Exc-/Com Green/Blue	Cal Orange			_RST_ Input	Re-trans mA+ V+	Re-trans mA- V-

Note: * Alarm RST switch wired between PIN8 and PIN4
* PIN20 should be Grounded (connected to Earth)