Product Introduction

The ONEhalf20 IPT258 Melt Pressure and Temperature Indicator with strain gauge 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

- dual input strain gauge & thermocouple
- pushbutton or Windows based programming
- 5 digit display with 1 psi and 1° resolution
- multifunctional lower display
- selectable units, psi, bar, Kgf/cm^2, MPa, °C, °F
- automatic peak detection and display
- built-in transducer excitation voltage
- 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

IPT 258

Electrical

Input: 350 Ohm strain gauge bridge sensor & Type J, K, or E thermocouple
Bridge Excitation: 5 Vdc
Sensitivity: 2.0 - 4.0 mv/Volt auto sensed
Input Power: 85-264 Vac (24 Vdc available)
Calibration: shunt resisitor 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

www.onehalf20.com

Ordering Guide

Model Number	Style
IPT258	1/8 DIN panel mount (96 X 48mm)

	Alarms (Pressure or Temperature)
-0	no alarms, indicator only
-1	1 alarm
-2	2 alarms
-3	3 alarms

	Retransmission
O	no retransmission signal
R	4-20 mA
V	0 - 10 Vdc

	Options
-W	24 Vdc power supply
-C	MODbus communications

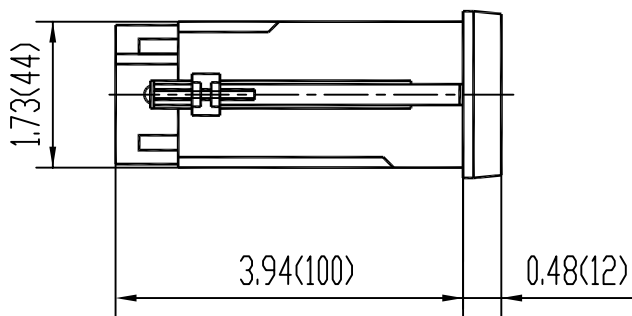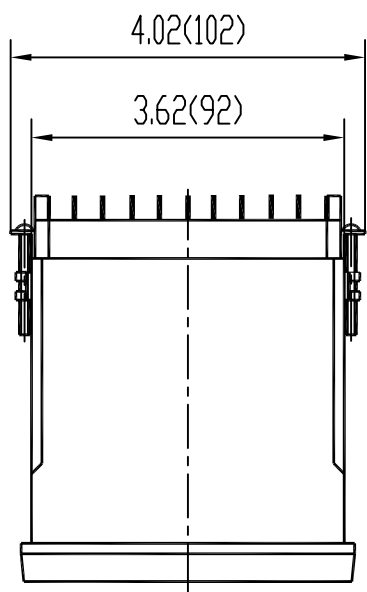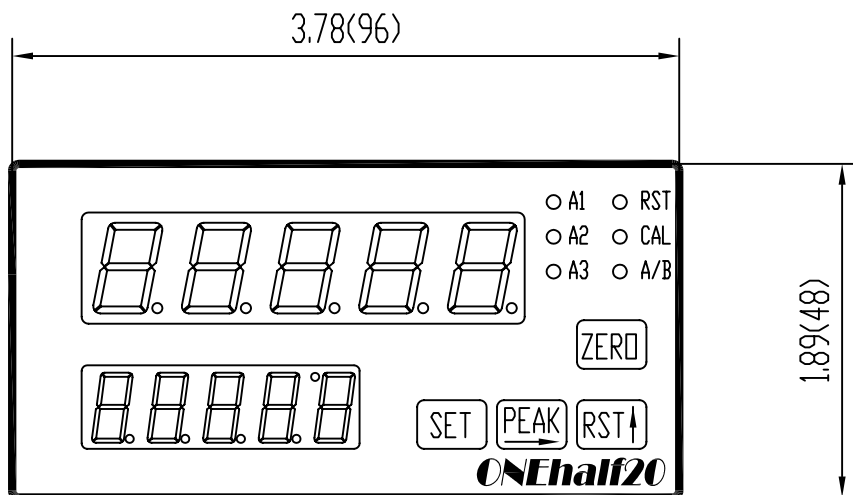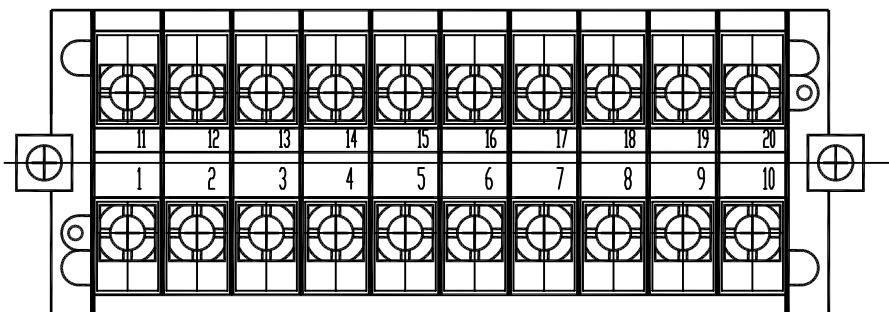For configurations not listed please contact your local **ONEhalf20** distributor.

Melt Pressure & Temperature Transducer Packages from *ONEhalf20*

ONEhalf20

3.78(96)

1.89(48)

○ A1 ○ RST
○ A2 ○ CAL
○ A3 ○ A/B

ZERO

SET PEAK RST↑

ONEhalf20

4.02(102)

3.62(92)

1.73(44)

3.94(100)

0.48(12)

ONEhalf20

IPT258 Wiring Diagram   Power=(AC 100-240V)

RS485 -B	RS485 +A	AL3 N/□	AL2 N/□	AL1 N/□	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	T/C+ (J,K,E)	T/C- (J,K,E)	_RST_ Input	Re-trans mA+ V+	Re-trans mA- V-

IPT258 -W Wiring Diagram Power=(DC 24V)

RS485 -B	RS485 +A	AL3 N/□	AL2 N/□	AL1 N/□	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	T/C+ (J,K,E)	T/C- (J,K,E)	_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)

DATE: March/2009 V1.0