

**TECHNICAL NOTES**

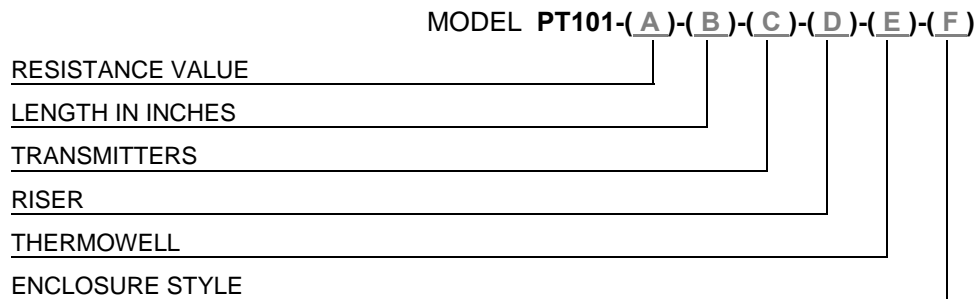
**MODEL PT101 SERIES  
 TEMPERATURE TRANSMITTERS AND RTD RESISTANCE PROBES  
 FOR NOVA-FLOW, FLOWSTAR SERIES AND CRYOGENIC SYSTEMS**

**General Description**

Hoffer’s family of temperature transmitters is offered for use with Hoffer Nova-Flow and Flowstar flow computers when gas flow, or liquid flow is being measured with and compensated for varying temperatures. The series is offered with 4 to 20 ma transmitters or 100 ohm and 1000 ohm platinum RTD. The Nova-Flow computer can accept either RTD resistance inputs or 4 to 20 ma analog inputs.

The temperature transmitters and RTD's are designed to be rugged and light weight and are to be mounted directly on the process piping. Hoffer offers risers on both the FFS and FIK installation kits of the proper height and size to allow the temperature probe to be inserted direct in the flow media at the proper distance for the platinum sensing element to be most effective and responsive to temperature changes of the flow media. Protective sheaths and thermowells are offered for high flow rates and for protection of probe when required. All RTD's are platinum wire for the widest temperature range and best linearity possible. The RTD's and transmitters are offered in explosion-proof enclosures as well as water-tight enclosures. 24VDC power for the transmitters are supplied by the flow computers. The transmitters can also operate from any DC voltage from 12 to 40 VDC. Select from the model numbering system below.

**Ordering Information**



**RESISTANCE VALUE**

MODEL **PT101-(A)-( )-( )-( )-( )-( )**

**OPTION ( A )**

(100) 100 OHM RTD PROBE, OLD STYLE STOCK NUMBER 100-1569, WORK WITH THE NEW 4500 TRANSMITTER. THE NEW PROBE, STOCK NUMBER 100-1585 IS REQUIRED.

**NOTE: WHEN REPLACING A 4150 IN THE FIELD WITH A 4500 TRANSMITTER, THE NEW 100 OHM PROBE MUST BE USED.**

(1000) 1000 OHM RTD PROBE FOR USE WITH CRYO SYSTEMS ONLY.

## LENGTH/INCHES

MODEL **PT101**-( )-(**B**)-( )-( )-( )-( )

OPTION ( B )

(2) 2 INCHES IS STANDARD LENGTH.

( ) ENTER ANY LENGTH REQUIRED IF LONGER THAN 2 INCHES.

## TRANSMITTERS

MODEL **PT101**-( )-( )-(**C**)-( )-( )-( )

OPTION ( C )

(4500 ENTER MIN/MAX TEMP)

FOR USE WITH 100 OHM RTD PROBE; MUST HAVE A TEMPERATURE SPAN OF 18 DEG. F MINIMUM.

(7600 ENTER MIN/MAX TEMP)

FOR USE WITH 1000 OHM RTD PROBE; MUST HAVE A TEMPERATURE SPAN OF 18 DEG. F MINIMUM.

## RISERS

MODEL **PT101**-( )-( )-( )-(**D**)-( )-( )

OPTION ( D )

(8R) 8" STAINLESS STEEL RISERS.

**NOTE: TO BE USED WHEN APPLICATION TEMPERATURES ARE BELOW -40°F AND ABOVE +140°F.**

## THERMOWELL

MODEL **PT101**-( )-( )-( )-( )-(**E**)-( )

OPTION ( E )

(TW) STAINLESS STEEL THERMOWELLS, REQUIRED FOR HYDROGEN, LNG, LPG, ETHYLENE AND OTHER HAZARDOUS APPLICATIONS.

**NOTE: USE 1000 OHM PROBE ONLY WITH CRYOGENIC FLUIDS.**

## ENCLOSURE STYLE

MODEL **PT101**-( )-( )-( )-( )-( )-(**F**)

OPTION ( F )

(E1) EXPLOSION-PROOF

- FM: CLASS I, DIV. 1, GR. ABCD, CLASS II/III, DIV. 1, GR. EFG, TYPE 4X
- CSA: CLASS I, DIV. 1, GR. ABCD, CLASS II, DIV. 1, GR. EFG, CLASS III, TYPE 4X  
Ex d IIC, CLASS 1, ZONE 1, IP 66
- ATEX: Ex II 2GD, Ex d tD IIC, IP66/IP68
- IEC: Ex d IIC, IP68

- NOTES:**
1. FOR UL LISTED EXPLOSION-PROOF ENCLOSURES CONTACT FACTORY.
  2. INSERT (X) IN THE MODEL NUMBER FOR EVERY OPTION NOT REQUIRED.

## **STANDARD HOFFER SPECIALTY TEMPERATURE RTD'S**

**MODEL PT101S-1000-2MSH-CE**

1000 OHM HERMETICALLY SEALED FOR ALL CRYO SYSTEMS

**MODEL PT102-1000-2-7600(MIN/MAX TEMP)-RS-E1**

HIGH PRESSURE TEMPERATURE PROBE (0-20,000 PSIG)