



MODEL 902 – SMART TYPE
HUMIDITY CUM TEMPERATURE TRANSMITTER

Introduction

Pantech Instruments Model 902 is an extended version to its predecessor model 901. Model 902 is a Humidity cum Temp. Transmitter. The Sensing + Transmitter circuits not only senses the %RH value & Temp. Value, but also does convert it into 2 nos. Of 2 wire 4 - 20 mA DC signal, for use of the higher instrumentation or controlling layers. The Load Capacity of this 4 -20 mA DC signal is 850 ohms. Model 902 series is often ideally suited for low drain, battery operated systems. The basis HUMIDITY sensor inside the probe gives quality RH(Relative humidity) Sensing performance in a competitively priced package. The RH Sensor is a laser trimmed, thermoset polymer capacitive sensing element with on-chip integrated signal conditioning. The sensing elements and transmitter PCB'S multilayer construction provides excellent resistance to most application hazards such as wetting, dust, dirt, oils and common environmental chemicals. For TEMPERATURE measurement, a miniature but high quality RTD is installed inside the basic sensor. The model is a fully configurable one, microprocessor based type. The model incorporates low drift operational amplifiers and industrial grade components. Burn in of each module ensures a long trouble free operation.

FEATURES:

- Moulded thermoset plastic housing
- Near linear voltage output vs% RH.
- Laser trimmed interchangeability
- Low Power design
- Enhanced Accuracy
- Fast Response time
- Stable, low drift performance
- Chemically resistant

Potential applications:

- Refrigeration equipment
- HVAC
- Medical Equipment
- Drying
- Metrology
- Battery Powered systems
- OEM assemblies

Specifications

Input

Inbuilt Humidity Sensor
Inbuilt RTD element

Output

2*4-20mA DC in 2 wire loop (Humidity & temp. Signal)
With an accuracy of +/- 0.15% of span.

Analog output load capacity

800 Ohms

Output accuracy

+/- 0.1% of span.

Power supply

24 VDC (22.5 to 28)VDC

Ambient Temperature

0 - 50deg.C

Storage Temperature

0 - 70 deg.C

Humidity

Upto 100% (non-condensing)

Enclosure

Weatherproof, flameproof and all other standard types

Mounting

Head/ Panel/Wall/ field

Optimum

Dimensions

dimensional and display sizes are the relational virtues of each other and hence the user is always requested to clarify the specifications of instrument with the factory prior to placement of the order.
On confirmation with factory, changes of all types in all specifications is possible.



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Ordering Information

Please confirm the availability of the model by cross checking the table mentioned on the backside.

Basic Model No.

902 -Universal Temp. Transmitter

Enclosure / Mounting

- P-Weatherproof - Panel
- F-Flame proof – Wall / Field
- W-Weatherproof - Wall
- I-IP65 grades – Wall / Field
- S-Specials



PANTECH INSTRUMENTS

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