



**UNIVERSAL TYPE TEMP. TRANSMITTER (RTD / Thermocouples / Others)
Microprocessor based and Fully configurable MODEL 872**

**Pantech Instruments
Specifications**

Introduction

Pantech's Two Wire Transmitters, model 872 is designed over low drift, low power components. The transmitter is designed to accept universal type RTD / thermocouple like temp. inputs or other Linear inputs, and provide 4-20mA DC signal on the same two wires, which carry the 24 V DC. Note that the user can select any one of the available RTD/thermocouple/Linear inputs by configuring through front fascia keys. The transmitter is also optionally equipped with a local 4 digit LCD/LED display to exhibit the input signal value as configured for. All the configurations like : input signal type selection, ZERO and

SPAN adjustments for display range and outputs can be done through front keys only. The output signal of 4 – 20mA DC capable of driving a load of upto 800. This eliminates needs to run compensating cable or three core cable between the field and control room. For thermocouple inputs, CJC compensation is inbuilt. The output is linear w.r.t. the input temperature signal. The transmitter is available in field mounted / panel mounted housings as required.

Model 872 Features

- 1)Allows the user to select the input signal type . The 2 wire transmitter allows the use to select any one of RTD / Thermocouple diff. types / Linear inputs by front keys only.
- 2)The ZERO and SPAN configurations is done by the front keys only. Hence the display ranges and output signal ranges are also configured. This feature allows the user to take output signal / display range on any subset range of the whole input temperature range.
- 3)The display can be optional feature also.
- 4)4-20 mA DC can be given galvanically isolated.

Specifications

Inputs – UNIVERSAL (all of the below)

- RTD Pt. 100 range : 100 to 600 deg. C
- T/C J type range : -200 to 760 deg. C
- T/C K type range: -250 to 1300 deg. C
- T/C R type range: 0 to 1750 deg. C
- T/C S type range: 0 to 1750 deg. C
- T/C T type range: -250 to 400 deg. C
- T/C B type range: 450 to 1820 deg. C
- T/C E type range: -100 to 1000 deg. C
- Linear inputs of 0-20 mA / 0-50 mV
- UNIVERSAL (all of the temperature i/p in above)
- (User can select input type, Temp. ranges by keys)

Temperature ranges

Fully configurable by front keys

Display type

- 4 digit LED
- 4 digit LCD

Display accuracy

+/- 0.1% of span

Output

4-20 mA DC in two wire loop

Analog output load capability

800 maximum

Output accuracy

+/- 0.1% of span

Power supply

24 V DC (22.5 to 28) V DC
from two wire loop

Security

Single level Password protected

Ambient temperature

0 – 50 C.

Storage temperature

0 – 70 C.

Humidity

90% RH (non-condensing)

Enclosures

Weatherproof, Flameproof and all other standard types

Mounting

Head / Panel / Wall / Field / Dinrail / Eurocard

Dimensions

Optimum
*All config/calibration from front keys only



(Head Mount, LCD display)



(Din rail type, LED display)



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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. (Specified by first 3 digits)
872 -Universal Temp. Transm.

Enclosure / Mounting (letter following 3 digits)

P-Weatherproof - Panel
W-Weatherproof - Wall
F-Flameproof - Wall / field
I-IP65 grade – wall / field
C-PCB card type
E-Weatherproof - Eurocard
S-Specials

Input type

R-RTD Pt. 100
T-T/C
L-Linear inputs
U-Universal

Display Options

0-NIL
1-4 digit red LED
2-LCD



PANTECH INSTRUMENTS

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