



**RTD 2-WIRE TRANSMITTER – FIXED / VARIABLE range type  
MODEL 871**

**Technical Catalogue**



( Field mount type )



( Din rail type )

**Introduction**

Pantech's Two Wire Transmitters, model 871 is designed over low drift, low power components – Hence confirms the standard specifications of being a X'mitter. It is designed to provide 4-20mA DC signal on the same two wires, which carry the 24 V DC.. This 4-20 mA DC signal is corresponding to the temperature measured by the RTD elements at the input of this 2-wire transmitter. The transmitter is an ideal choice for temperature measurement with RTD's. It provides a current output signal of 4 – 20mA DC in a two wire loop, capable of driving a load of upto 650. This eliminates needs to run compensating cable or three core cable between the field and control room.

The instrument can be calibrated throughout the range of RTD. The output is linear with respect to temperature for RTD input.

Model 871 features :-

- 1)Input type is fixed at RTD Pt. 100 3 wire.
- 2)Input temperature range is fixed or variable. The user has to specify however this clearly.
- 3)The user can configure to change the input temperature range by DIP switch settings / potentiometers on PCB level.
- 4)Convenient only when all the specifications are clear and steady.
- 5)Can be provided in : DIN RAIL / HEAD MOUNT / PCB structure as a standard types.

**Specifications**

<b>Input</b> RTD Type Pt.100	<b>Power consumption</b> 0.5 VA max.
<b>Input range ( -100 to 600 deg. C )</b> Fixed – Can be varied +/- 5% by potentiometers Variable – Can be varied for whole range with DIP Switch and Potentiometers	<b>Ambient temperature</b> 0 – 50 C.
<b>Analog Output</b> 4 – 20mA DC	<b>Storage temperature</b> 0 – 70 C.
<b>Analog output load capability</b> 650 maximum	<b>Humidity</b> 90% RH (non-condensing)
<b>Output accuracy</b> +/- 0.15% of span	<b>Enclosures</b> Weatherproof, Flameproof and all other standard types
<b>Power supply</b> 24 V DC (22.5 to 28.0V) in two wire loop	<b>Mounting</b> Head / Panel / Wall / Field / Dinrail / Eurocard
	<b>Dimensions</b> Standard / Optimum



**PANTECH INSTRUMENTS**

**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)  
871-RTD Two-Wire Transmitter

**Enclosure / Mounting** ( letter following 3 digits)

P-Weatherproof - Panel  
W-Weatherproof - Wall  
F-Flameproof - Wall / field  
I-IP65 grade – wall / field  
C-Raw PCB card type only  
H-Head mounted  
( as per DIN standards )  
E-Weatherproof - Eurocard  
S-Specials

**RTD range**

F-Fixed type  
V-Variable type  
( By DIP switch / Potentiometer )



**PANTECH INSTRUMENTS**

102, Shailja Complex II, Near R. C. Patel Estate, Akota-Padra Road, Vadodara - 390 020. (INDIA)  
Telefax : (0265) 2331380, 6616080 Mobile : 98240 16466, 99242 10722  
E-mail : pantech\_instruments@yahoo.com URL : www.pantechindia.com