CONDUCTIVITY 2-WIRE TRANSMITTER MODEL 874

(Din rail)

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Introduction

Pantech's Two Wire Transmitters, model 874 is designed over low drift low power components. It pumps in a constant current into the liquid through the conductivity cell to measure the electrical conductivity of any liquid. The square wave signal is selected as an excitation voltage for the conductivity cell for the ease for processing. It provide 4-20mA dc signal on the same two wire which carry the 24 V DC for conductivity measurement. The transmitter is an ideal choice for Linearized measurement with standard conductivity cell. Temperature of the liquid is monitered by a RTD element and compensation is provided over the complete operating range. It provides a current output signal of 4 – 20 mA DC capable of driving a load of upto 650.

The range of the instrument can be selected by setting the DIP switches on the module and with proper cell constant. The temperature compensation provided as standard is 2%/deg. C but can be changed to a value anywhere between 0 to 4%.

The transmitter is available in field mounted housings with or without local display. The local 3-½ digit loop powered display reduces the load capability of the transmitter to around 500. Also the transmitter is available in weather or explosion proof housing.

Specifications

Input
1) Conductivity cell, K=0.1 or 1
2) RTD Type Pt.100

Input Range
0 – 100µS to 0 – 5000 µS
(Selected by DIP switches)

Temp. Compensation
0 - 125ºC
2%/deg. C (standard)

Analog Output
4 – 20mA DC

Analog output load capability
600 maximum
500 with digital display

Output accuracy
+/- 0.25% of span

Power supply
24 V DC (22.5 to 28.0V)

Power consumption
0.5 VA max.

Ambient temperature
0 – 50 C.

Storage temperature
0 – 70 C.

Humidity
90% RH (non-condensing)

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)
874-Conductivity Transmitter

Mounting (Specified by letter following 3 digits)
P-Panel
W-Weather proof housing
F-Flame proof housing

Input 1 (Specified by first digit following the letter)
1-Conductivity cell

Input 2 (Specified by the second digit)
1-RTD Pt 100
2-T/C Type K

Please specify the maximum temperature range.
Cell constant (Specified by the third digit)
1-Cell K = 1
2-Cell K – 0.1

Display Option (Specified by the fourth digit)
0-None
1-3-½ digit LCD

Option (Specified by the fifth digit)
0-None

Option (Specified by the sixth digit)
0-None

Basic Model No. (Specified by first 3 digits)807D-Dual channel
807T-Tripple Chaanel
807n-Multichannel > 2
N = no.of channel

Enclosure / Mounting (Specified by letter following 3 digits)
P-Weatherproof - Panel
R-Weatherproof -Din Rail
E-Weatherproof - Euro card
W-Weatherproof - Wall
F-Flame proof – Wall / Field
I-IP65 grades – Wall / Field
S-Specials

Input (Specified by first digit following the letter)
1-mA DC signal input
2-V/mV DC signal input
3-RTD type
4-Thermocouple
5-Resistances
U-UNIVERSAL1 type
V-UNIVERSAL2 type
S-Specials / Others

Power Option (Specified by the second digit)
1-24 V DC
2-110 V AC
3-230 V AC
4-90-270 V AC – SMPS
S-SPECIALS

Alarms Option (Specified by the third digit)
0-None
1-1 no. of alarm per channel
2-2 no. of alarms per channel

Analog O/P Option (Specified by the fourth digit)
0-None
1-mA/V DC isolated per chn.
2-mA/V DC non-isolated per ch
S-Any other type of outptus

Bargraph Option (Specified by the fifth digit)
0-None
1-YES (in dual / 72 * 144 type)

Display Resolution (Specified by the sixth digit)
1-3 digit per channel
2-4 digit per channel

Communication output
0-None
1-YES

PANTECH INSTRUMENTS

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