

DATA SHEET

Transmitters (Non-isolated)

INTRODUCTION

Transmitters are ideal for all process control applications where temperature signal needs to be transmitted over long distance for indicating, controlling, recording or computerised data analysis. These transmitters employ 2Wire design technique, which means that the instrument output current signal and power supply are both drawn on the same 2wires. The major advantage is that the current output signal is highly immune to line resistance and noise, thereby eliminating the need for expensive shielded field cabling. The compensating cable cost can be saved by using field Mounted Transmitters and signal over large distance can be transmitted more reliably and with less cost. Load capability for transmitter can be enhanced by increasing D C P. S.



FEATURES

- Wide Input acceptance like T/C, RTD, mV etc
- High immunity to external interference (Noise)
- Wide variety to suit application
- High Accuracy Easy calibration
- Low cost

Model TX 400 Series

A. CHART FOR TYPE SELECTION

Type	Model	Input Type	Size / Mounting	Function
1	2TT 401	Pt100 / T/C	60*70*110 mm DIN RAIL / RACK / Wall	2Wire Transmitter
2	FTT 402	Pt100 / T/C	Field Mounting / Head Mounting	2 Wire Transmitter
3	4TT 403	Pt100 / T/C	100*70*115 mm DIN RAIL / RACK / Wall	4 Wire Transmitter
4	TX 404	Pt100 / T/C	Flame proof / Explosion proof / Weather proof as per specified class	2 / 4 wire trasmitter as per specification
5	RX 405	Pt100 / T/C	90*205*110 mm / 75*230 mm (H*W) RACK / Wall Mounting	Modular 5 Nos transmitters PCB with Power Supply Assemble in Single Cabinet For Other pls. Specify

TECHNICAL SPECIFICATIONS

ORDERING INFORMATION

Load Resistance	600 ohms maxi. for 24V DC P.S.
Accuracy	0.2% including linearity hysteresis & repeatability
Operating Temp.	0 - 50 deg C
Relative Humidity	90% RH Max. Non Condensing
Accuracy with Amb. Temp.change	Better than 0.02% per deg C Ref 25 deg C
Sensor break Protection	Up Scale
Cold Junction Comp.	Automatic for T/C Input
Lead resistance Comp.	Built in
Common Mode Rejection ratio CMRR	>120 db
Normal Mode Rejection Ratio N.M.R.	>80 db
Common Mode Voltage L.M.V.	500V DC

A Type Refer chart provided

B Operating Voltage

1. 12 - 38 VDC for 2TT - 401 FTT - 402
2. 240V AC \pm 10% 50/60 Hz
3. 120V AC \pm 10% 50/60 Hz

C Input

Max Range

Pt100	-200 to 600°C
Fe - Con 'J'	0 to 600°C
Cr - Al 'K'	0 to 1200°C
Pt Pt RH 10% 'R'	0 to 1600°C
Pt Pt RH 13% 'S'	0 to 1600°C
Others	PI Specify

D Out put (Non Isolated)

1. 4 to 20 mA for 2TT-401, FTT-402
2.

0 - 20 mA	For 4TT-403
4 - 20 mA	
1 - 5V DC	
3. For others pl. specify

E Engineering Unit °C, others specify

Ordering Code TX 400

A B C D E

APPLICATIONS

- For calibration of proces control Instruments and Systems for various industries such as Cement, Chemicals, Dyestuff, Paint, drugs, Pharmaceuticals, Sugar, Paper, Glass, Food Industries, Steel, Synthetics, Auto, Air-conditioning & Refrigeration.
- As fault finding tool.
- Quality Assurance tool for ISO 9000, QS 2000 companies for control of Inspection & Measurement.

- Due to continuous development specifications are subject to change without notice.

Total Instrumentation under Single Roof



SBK Instrumentation

A-201, Manali Arcade, Pune Satara Road
Near D-Mart, Pune-411009, INDIA
Pune - 411043. INDIA
Telefax : 020-24371391 Mobile : 9423001226
Email : sbkinstru@rediffmail.com

Represented by :-

SBK Instrumentation