



TT7S10



TT7S11

TT7S Isolated Universal Temperature Transmitters

TT7S10: Loop Powered
TT7S11: Aux Powered

Features

- Loop/Aux Powered models
- Isolated & Linearized output
- Universal RTD, T/C, mV & ohm Input
- Online PC programmable
- 0.1% accuracy
- SLIM Housings
- Sensor break upscale/downscale option

Benefits

- Loop powered helps reduce wiring cost
- Universal Input helps reduce inventory cost
- Galvanic Isolation reduces measurement errors
- High accuracy safeguards signal integrity
- SLIM housing allows high density DIN rail mounting
- Online programming allows In-Situ calibration

Application

- Signal Isolation between system & field
- Safety of high cost equipment
- Remove high common mode voltage
- Eliminate ground loop currents
- Convert Temperature signal to linearized V/I output
- Reduce wiring costs

Technical Specifications:

Input (PC-Programmable)

TYPE	RANGE
E	-200 to 1000°C
J	-200 to 1200°C
K	-200 to 1370°C
T	-200 to 400°C
B	450 to 1800°C
R	0 to 1750°C
S	0 to 1750°C
N	-200 to 1300 °C
PT-100	-200 to 850 °C
mV	0-75mV/0 - 500mV
Ohm	0-2500Ω

Impedance	: >1 MΩ
CMRR	: >100dB
NMRR	: >40dB
Sensor break	: User Selectable
Zero/Span	: User Selectable

Output

TT7S10	: 4-20mA
Load	: (Loop supply-7.5V) / 0.020mA max : Current limit -26mA
TT7S11	: 4-20mA, 0-20mA, 1-5V, 0-10V (Factory set)
Load	: Current - 750 Ω max : Current Limit - 26mA : Voltage - 5Kohm min

Accuracy	: 0.1% of FS (B, R, and S: 0.25%)
CJC error	: +/- 1.0 °C
Resolution	: >0.01% of FS
Tempco	: <150 ppm
Response time	: <500 mSec
Calibration	: By software
Isolation (Input/output/supply)	: 1.5KV ac

Power supply

TT7S10	: 7.5 -36V Loop supply
TT7S11	: 18-36V Aux supply

Environmental

Operating Temperature	: 0 to 55°C
Storage Temperature	: -10 to 70°C
RH	: 30 to 90%(non-condensing)

Enclosure colour

TT7S10	: Green
TT7S11	: Grey

Weight

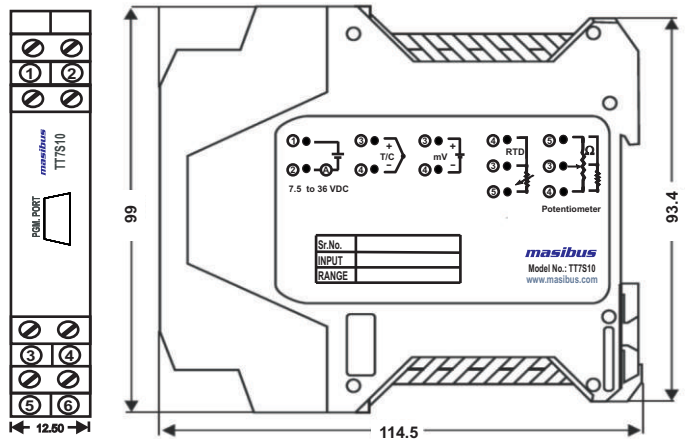
TT7S10	: 90 gm
TT7S11	: 100 gm
Protection	: IP20

Mounting

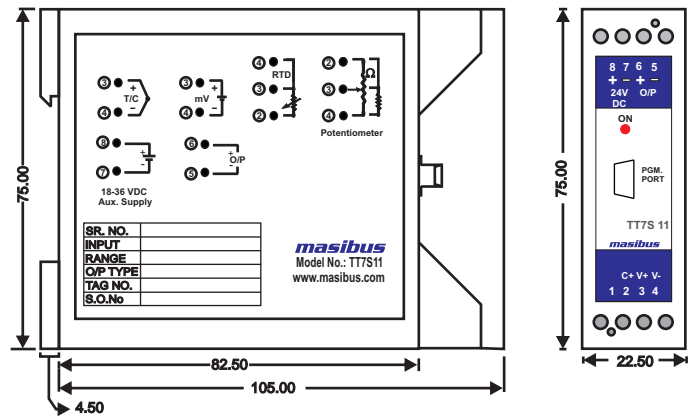
: 35mm DIN Rail

Dimensions

TT7S10 (12.5 X 99 X 114.5 mm)



TT7S11 (22.5 X 75 X 110 mm)



ORDERING CODE

Model	Supply		Input		Output	
TT7S	10	Loop	1	E	1	4-20mA
	11	Aux	2	J	2*	0-20mA
			3	K	3*	1-5V
			4	T	4*	0-10V
			5	B	5*	0-5V
			6	R		
			7	S		
			8	N		
			9	Pt-100		
			U	0-75mV		
			H	0-500mV		
			I	0-2500Ω		

*Available in Aux Powered model TT7S11 only.
Option TT7S-CC: Configuration Cable

Head Office:

Masibus Automation And Instrumentation Pvt. Ltd.

B-30, GIDC Electronic Estate, Sector-25, Gandhinagar - 382044. Gujarat. India.
Telephone.: +91 79 23287275-79. Fax.: +91 79 23287281-82
Email: sales@masibus.com. Website: www.masibus.com

All specifications are subject to change without notice due to technology reasons.
Doc. Ref. TT7S/R0/0711

Masibus Representative:

Marketed By: Digital Promoters (India) Pvt. Ltd.
505, Vishal Bhavan, 95, Nehru Place, New Delhi - 110019
Contact: 011-47003900, DigitalPromoters@gmail.com,
www.DigitalPromoters.com