

MTS500

Digital Intelligent Temperature Transmitter



OVERVIEW

Operation

MTS500 smart transmitter is a versatile digital instrument produced by Bass Instruments. The design is based on the advanced, mature, reliable technology, and combines with advanced microcontroller technology and sensor digital conversion techniques.

Application

- Create consumption profiles to save energy
- Petroleum
- Food industry
- Mechanical engineering
- Pharmaceutical industry

Features

- Compact design
- Protection type IP67 or IP68 on request
- Corrosion resistant stainless steel design
- Wide measuring range
- Simple installation
- Various output signal
- Accordance with EN 61 326



OPERATING DATA

Ambient Temperature

-40...85°C

Storage Temperature

-40...95°C

Long Term Drift

<0.1/year

Accuracy

±0.01°C for MPS300

±0.003°C for MPS2100

Enclosure

IP67/ IP68 on request

Units

°C, °F, °R

Relative Humidity

≤98% condensation allowed

Input Type

Thermocouple S,R,B,K,N,E,J,T

Ohm, Voltage

MEASURING RANGES

Maximum Temperature Range

-270°C...800°C (PT100)

-200...1820°C (Thermocouple K)

Sensor Type	Input Range	Minimum Span
RTD		
Pt-100	-200 ~ 650 °C	15°C
Pt-100	-200 ~ 650 °C	
Thermocouple		
-Type B	100 ~ 1,820 °C	25°C
-Type E	-200 ~ 1,000 °C	
-Type J	-200 ~ 1,200 °C	
-Type K	-200 ~ 1,350 °C	
-Type N	-200 ~ 1,300 °C	
-Type R	0 ~ 1,760 °C	
-Type S	0 ~ 1,740 °C	
-Type T	-200 ~ 400 °C	
Millivolt Input	-10 ~ 75 mV	2 mV
Ohm Input	0 ~ 340 Ω	20 Ω

MATERIALS

Wetted Parts

AISI316

Housing

Aluminum14

Others

On request



ELECTRICAL DATA

Output

2-wire, 4-20 mA

Power Supply

9-45 VDC (9-24V, Ex)

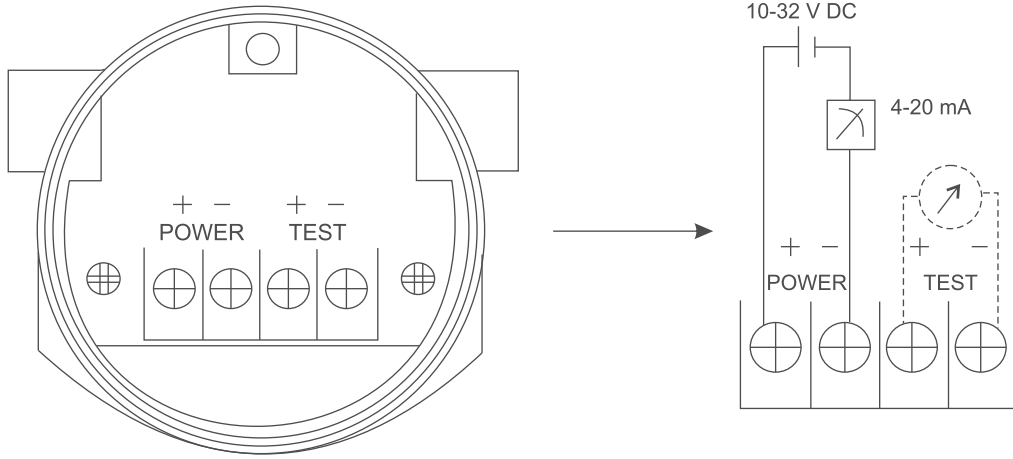
Communication

HART

Electrical Connection

G1/2", M20x1.5, 1/2 NPT

WIRING



ORDERING

Model	
MTS500	Digital Intelligent Temperature Transmitter

Output	
420	4-20 mA
010	RS485 MODBUS

Measuring Range	
XXX	Please fill directly as unit is mm. (150 means 150 mm)

Neck Length (optional)	
XXX	Please specify in order

Process Connection	
01	G 1/2"
02	1/2" NPT
03	G 1"
04	1" NPT
XX	Other options on request

Enclosure	
67	IP67
68	IP68

Hazardous Area	
N	None
Xi	II 1/2G Ex ia IIC T4 Gb(Ga)

