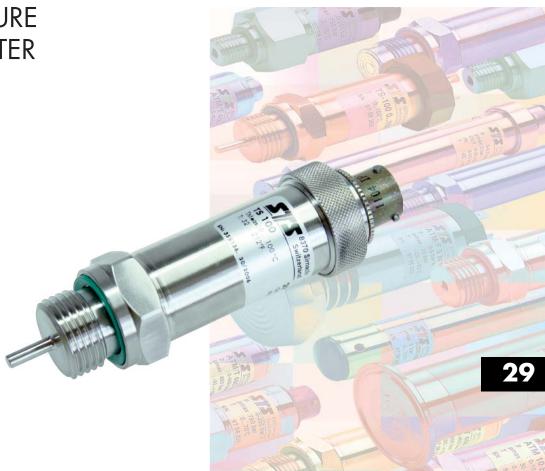


TEMPERATURE TRANSMITTER TS100



Features

- Temperature measuring range: -65 to 300°F
- Accuracy: ± 2°F typical, 32 to 160°F
- PT100 4-wire output option
- 316L SS or Titanium construction
- Suitable for pressures up to 12,500 psi
- 4-20 mA or 0-5/10 VDC outputs

Product overview and applications

The TS100 series 29 is a precision temperature transmitter which compliments the broad range of well proven ATM series pressure transmitters. It incorporates a PT100 measuring element and offers either the four wire unamplified output or conventional configurations of either 4-20mA or 0-5/10 VDC. This is a highly reliable product available on short delivery with customized versions as an option.

Examples of applications include:

- Machine installations
- Industrial process monitoring and control
- Heating and ventilation
- Hydraulics
- Test and calibration system

Specification

Measurement

Temperature Measuring ranges

-65 to 212°F (Fig. 1)

-65 to 300°F (with cooling ext., Fig. 2)

Any temperature band can be specified from 50°F to 277°F within the temperature range of -65°F to °212°F for standard or -65°F to 300°F with cooling extension.

Operating pressure

Suitable for pressures up to 12,500 psi

Performance

Accuracy

- 2°F typical, 32 to 160°F
- 3°F typical, -15 to 185°F
- 4°F typical, -65 to 300°F

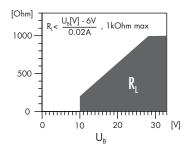
Supply voltage

9 - 33 VDC for current output 15 - 30 VDC for voltage output Influence of supply voltage < 0.1% FS

Load resistance

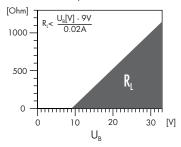
Influence of load resistance < 0.1% FS

4 to 20 mA output:



Specification continued

0 to 20 mA output:



Voltage output: RL > 10kOhm

Output signals available

4 - 20 mA (2-wire)

0 - 20 mA (3-wire)

0 - 5 VDC (3-wire)

0 - 10 VDC (3-wire)

4-wire unamplified output

Insulation resistance

> 50 megohms @ 500 VDC (@ 68°F)

Construction

Pressure media compatability

316L SS (standard) Titanium on request

Process connection, Probe dimensions

7/16"-20 UNF male, ø 0.126 x 0.85" 1/4" BSP or 1/2" BSP available Others available

Electrical connection

DIN 43650 (Fig. 3)

6-pin bayonet per MIL-C-26482 (10-6) (Fig. 4) Polyurethane cable (Fig. 5)

Demountable versions and other types available

Specification continued

Weight

5 oz approximate (not including cable)

Vibration

10 g, 10 to 2000 Hz

Mechanical shock

100 g / 6 ms

Ordering information

Please specify the following:

- 1) Model number TS100 29
- 2) Electrical connection
 - 01 DIN 43650
 - 06 6 pin bayonet (mating connector extra)
 - 15 Polyurethane cable
- 3) Temperature measuring range
- 4) Cable length
- 5) Any special features

Example ordering format:

TS100 29 - 15 - 32 to 160°F - 10 feet cable

Options

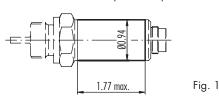
STS offers a wide range of options for these and other similar transmitters. Please consult the factory for any special requirements.

Examples include:

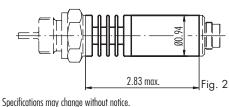
- Alternate electrical configurations
- i.e. RS 485, CANopen
- Lightning protection
- Intrinsic safety certification
- Explosion proof certification
- Alternate construction i.e titanium, hastelloy
- Alternate seals i.e. EPDM, Kalrez
- Wide range of pressure connectors
- Wide range of electrical connectors
- Datalogging

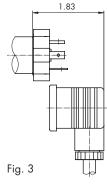
Dimensions (inches)

Version for medium temperature up to 212°F



Version for medium temperature up to 300°F





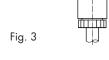


Fig. 4 0.77 ø 1.14

Fig. 5

10.00.0232A - 707

STS is registered ISO 9001-2000

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