

Model TDG

Temperature Transmitter with Local Indication

Description

TDG sensing element has excellent properties by using RTD and confirms temperature on the spot without any indicator. Remote transmission is implemented with the 2wire 4~20mA output. The display unit is explosion-proof and waterproof (IP65), applied even under poor environments.

Features

- ▶ Explosion proof approval to Ex d IIC T6
- ▶ 3 1/2 digit LCD display
- ▶ Two wire 4~20mA output
- ▶ Measuring range -50~400℃
- ▶ 0.3%FS accuracy
- ▶ Stainless steel(316L) media-wetted materials

Applications

- ▶ Chemical & Petrochemical
- ▶ Process Control & Monitoring
- ▶ Food & Pharmaceutical
- ▶ Plant utility monitoring

Specifications



Range

-50~0, -50~50, 0~50, 100, 200, 300, 400℃

Sensing Element

Sheathed RTD(PT100Ω)

Performance

Accuracy	±0.3%FS ± 1digi:
Ambient Temperature Range	-20 ~ 80℃
Storage Temperature Range	-40 ~ 100℃

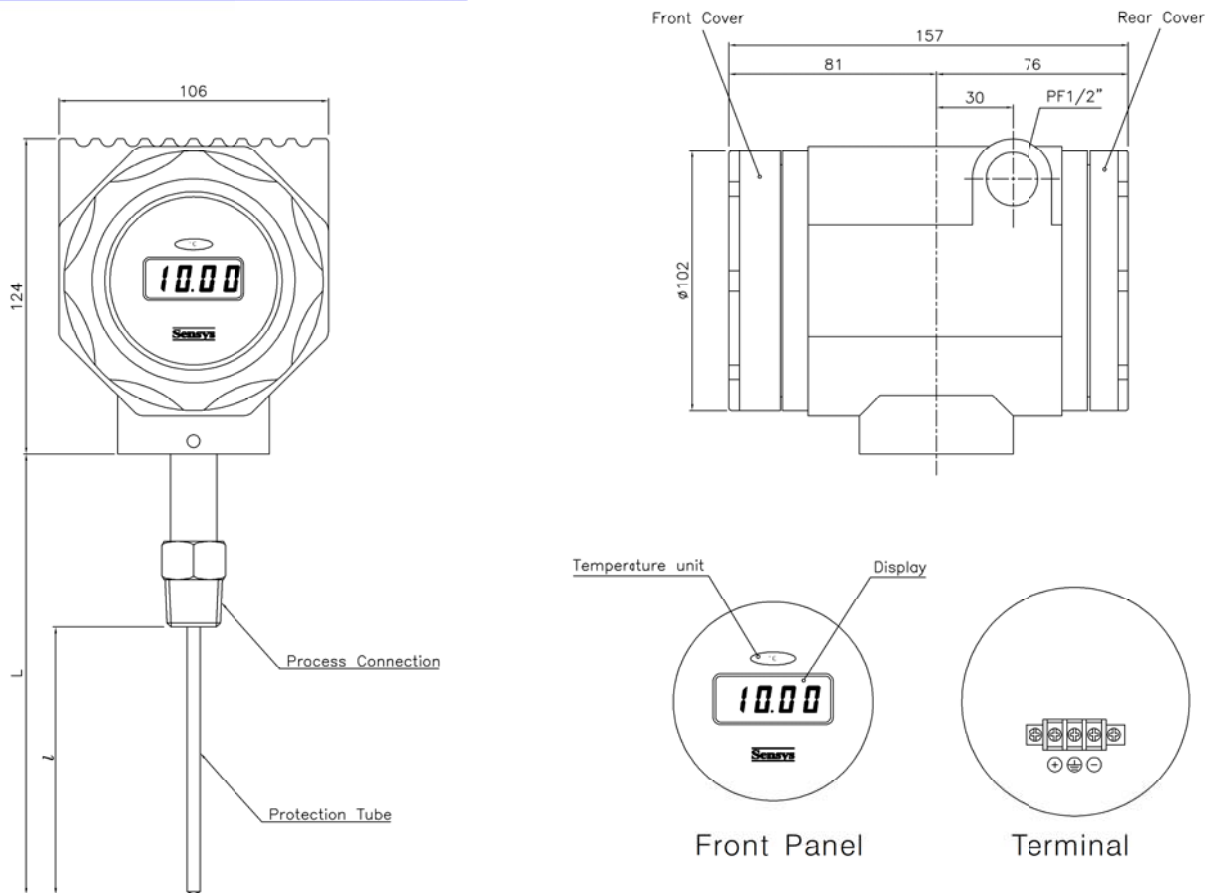
Electrical

Display	±1999(3 1/2) Digit LCD
Excitation	11 ~ 28VDC
Output	4~20mA(2Wire)
Electrical Connection	G(PF) 1/2", Cable Gland

Physical

Vibration	49.1m/s ² {5G}, 10~500Hz
Shock	490m/s ² {50G}
Process Connection	R(PT)1/2", Flange & Other Connection Available on Request
Media-Wetted Materials	Stainless Steel 316, Other Available on Request
Explosion Proof	Ex d IIC T6
Protection	IP65
Weight	Approx. 2kg (Standard type only)

Dimension



Ordering Information

TDGH 0010 C 48-100/50-G/A

Model Name

Temperature Range

C050 : -50~0℃ 0200 : 0~200℃
 ±050 : -50~50℃ 0300 : 0~300℃
 0050 : 0~50℃ 0400 : 0~400℃
 0100 : 0~100℃

Temperature Unit

C : Celsius(℃)
 F : Fahrenheit(°F)

Sheath Out Diameter

32 : φ3.2 64 : φ6.4
 48 : φ4.8 80 : φ8.0

Material of Protection Tube

A : STS316
 B : STS316L
 C : STS304
 D : Titanium
 E : Monel

Process Connection

A : R(PT)3/8" G : R(PT)1/8"
 B : G(PF)3/8" H : G(PF)1/8"
 C : R(PT)1/4" E : R(PT)1/2"
 D : G(PF)1/4" Q : G(PF)1/2"

Insert Length

ℓ (mm)

Length

L(mm)

Sensys

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· Specifications are subject to change without notice.

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