Datasheet
Temperature Meter ET300

Introduction

ET300 equips with a pt1000 and a transmitter, pt1000 is used to sensing the changes of medium temperature, the transmitter will convert the changes to industrial signal and output.

The robust, all-metal construction, standard 4–20mA output, and extensive range of connection options make the ET300 suitable for a vast array of applications.

Characteristics

Compact design

-58…392°F / -50…200°C

4…20mA output

Easy to install

Stainless steel housing

High repeatability, self-compensation

Applications

Hydraulic and lubrication system

Cooling system

Heating system

Water supply system

Building automation

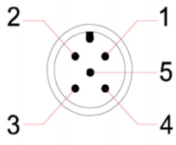
Oil and gas

Specifications

Power	10…30VDC
Current consumption	Same as signal output (4…20mA)
Output	Analog: 2-wire 4…20mA
	Load RA (Ω): RA<=(Us-10)V/0.02A
	Linearity: <=0.5% full span
Sensor	PT1000 Class A
Accuracy	<=0.5% of span
Measuring range (Media temperature)	-58…212°F (-50…100°C)
	-58…302°F (-50…150°C)
	-58…392°F (-50…200°C)
	32…212°F (0…100°C)
	32…302°F (0…150°C)
	32…392°F (0…200°C)
	Other temperature range on request (up to 1112 °F / 600°C)
Ambient temperature	-4…185°F (-20…80°C)
Housing material	Stainless steel 304
Wetted parts material	Stainless steel 316
Protection class	IP65 (mini solenoid valve connector)
	IP67 (M12x1)
Electrical connection	M12 x 1 / mini solenoid valve connector
Process connection	See order code for details
Wiring protection	Reverse polarity, Over-voltage

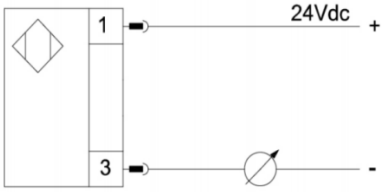
Wiring

M12 x 1



Pin	Color	Signal
1	Brown	Power +
3	Blue	Power -

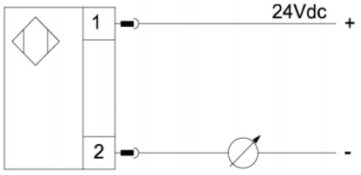
Wiring



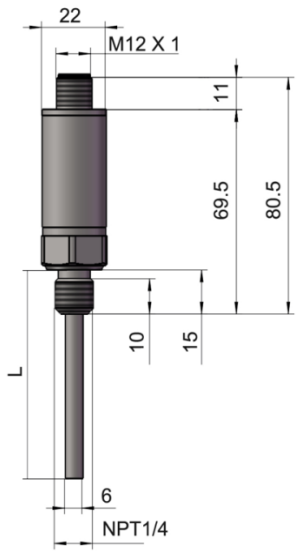
Mini solenoid valve connector

Pin	Signal
1	Power +
2	Power -

Wiring

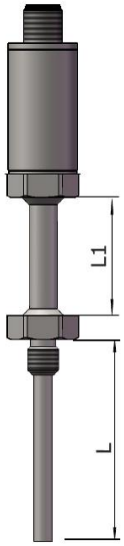


Dimensions in mm



L
see order code for details

Standard model



Temperature upper limit	L1
750°F (400°C)	50 mm
1100°F (600°C)	100 mm

High temperature model

Order Code

Example: ET300-FT1L250MN12

1. Model

ET300-	Temperature meter

2. Type

F	Standard model
S	Sanitary model

3. Measuring range

T1	-58…212°F (-50…100°C)
T2	-58…302°F (-50…150°C)
T3	-58…392°F (-50…200°C)
T4	32…212°F (0…100°C)
T5	32…302°F (0…150°C)
T6	32…392°F (0…200°C)
	Other ranges on request

5. Probe length L (thread is included, see dimensions)

L25	25 mm
L50	50 mm
L100	100 mm
L150	150mm
L250	250mm
L350	350mm
	Other length on request

6. Electrical connection

M	5-pin M12 x 1
S	mini solenoid valve connector

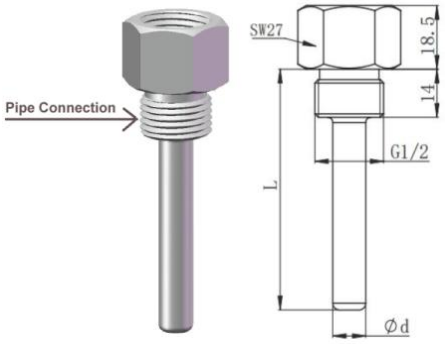
7. Process connection

T1	Tri-clamp 1" (for sanitary model)
T2	Tri-clamp 2" (for sanitary model)
G14	G1/4" male thread
G12	G1/2" male thread
N14	NPT1/4" male thread
N12	NPT1/2" male thread
U716	7/16" - 20 UNF
U38	3/8" - 24 UNF
	Other connections on request

8. Thermalwell (Optional)

PG12	G1/2" male thread
PG14	G1/4" male thread
PN12	NPT 1/2" male thread
PN14	NPT1/4" male thread
	Select the thread for pipe connection

Thermalwell



Accessory - Welding socket

1. Model	
TT01-	Welding socket

2. Thread	
G14	Fitting thread: 1/4" G thread
G12	Fitting thread: 1/2" G thread
N14	Fitting thread: 1/4" NPT thread
N12	Fitting thread: 1/2" NPT thread