Data sheet

VTTA305

Temperature Transducer

Product Description

VTTA305 series is a compact and durable temperature transmitter, which uses thermal resistance for temperature measurement, and the signal is converted into a standard industrial electrical signal output by the post-processing circuit. The all-metal casing design enables this series of products to be used in various industrial occasions. The analog output type is: 4...20mA, a variety of connection methods can fully meet various specific installation needs.

Features

- The ultra-small and integrated high temperature module is easy to install and convenient for system networking and wiring.
- Measuring range from -50℃...200℃
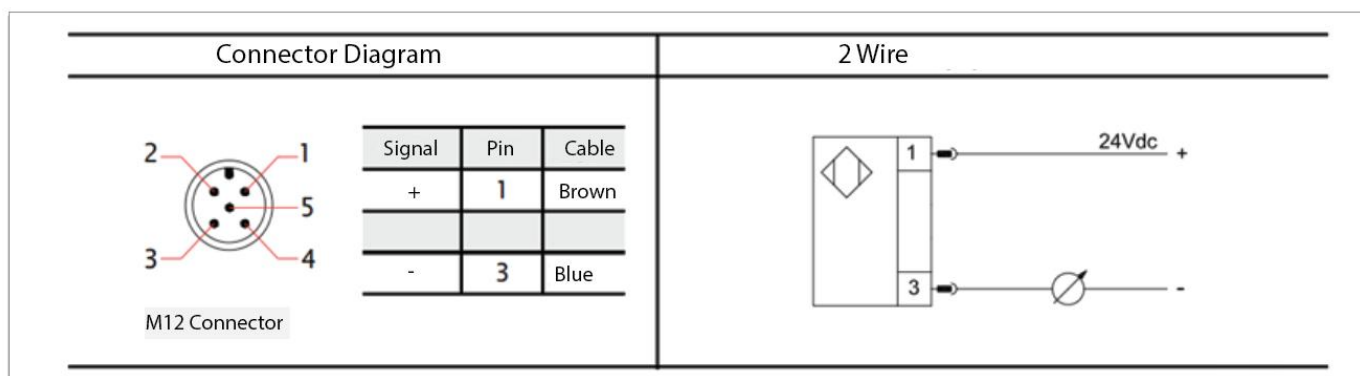- Compact structure
- Stainless steel shell

Application

- Hydraulic and pneumatic Circulating water/coolant Mechanical manufacturing
- Oil and gas industry
- Water treatment
- Building automation

Parameters

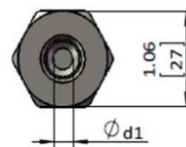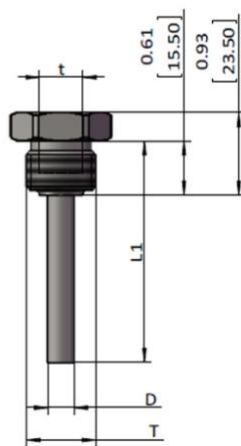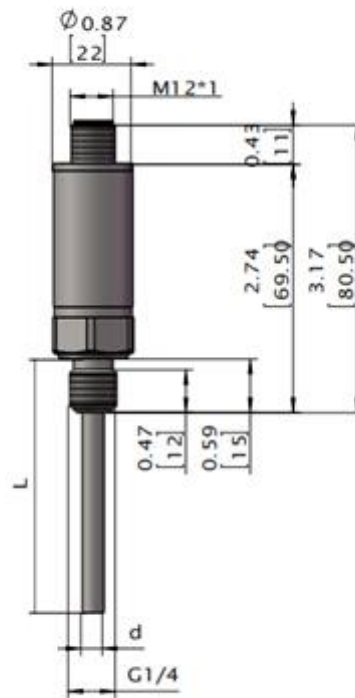|	
Supply voltage	10…30Vdc
2 wire type	Consistent with the output signal current (4… 20 mA)
Output type	2-wire 4… 20 mA
load RA(Ω)	RA ≤(Us-10)V /0.02A
Non-linearity	± 0.5% F.S
Sensor	PT1000 Class A
Accuracy	± 0 5% range
Stability (annual drift amount)	± 0 25% range
Medium temperature (measurement range)	-50…100℃/-50…150℃/-50…200℃
Ambient temperature	-20…+85℃
Withstand pressure	200bar
Shell material	Stainless Steel 304
Contact medium material	Stainless Steel 316
levels of protection	IP67 (M12connector)
Output type	M12 connector
Procedure linkage	G1 / 4 outer thread

Wiring Defination

Connector Diagram			2 Wire

Signal	Pin	Cable
+	1	Brown
-	3	Blue

M12 Connector

24Vdc

Dimension in inch[mm]

With cooling neck

Standard

Ø0.87 [22]

M12*1

0.43 [11]

2.74 [69.5]

3.17 [80.5]

L2

L

0.47 [12]

0.59 [15]

L

d

G1/4

0.61 [15.50]

0.93 [23.50]

t

L1

1.06 [27]

Ød1

D

T

Probe with neck tube cooling structure – – for 0℃ - 200℃

Upper Limit	L2	
	inch	m m
125℃	0	0
400℃	1.97	50
600℃	3.94	100

T	t	d	d1	D	L1
G1/2	G1/4	6	8	10	L–15