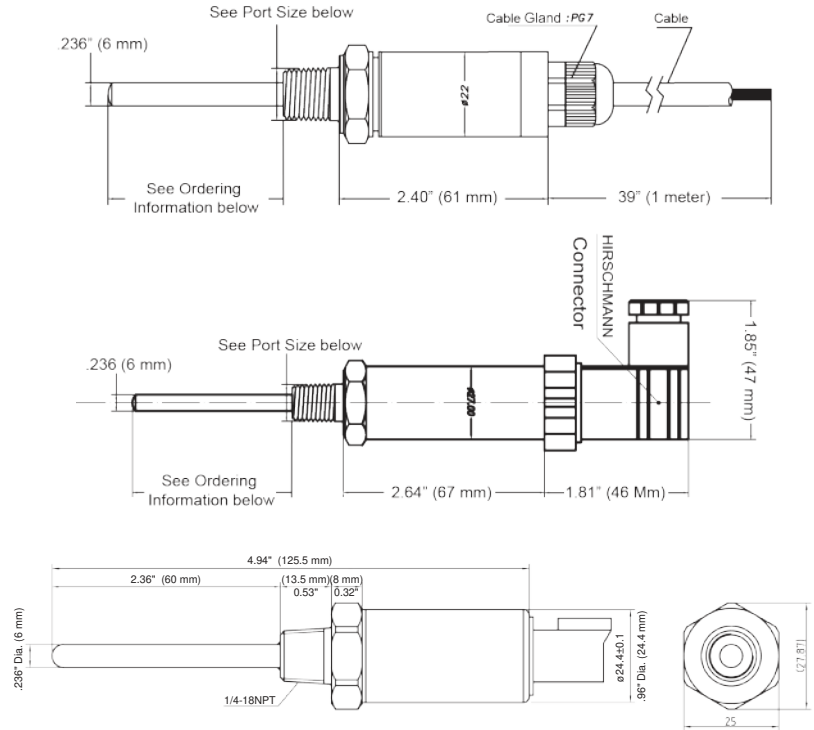




**Sensors Inc.**



# TTR Temperature Transducer



The TTR series is a temperature transducer consisting of a temperature header, module and housing. A signal conditioned output is proportioned to the applied temperature which is amplified, compensated and trimmed by a built in digital ASIC. Heat conductive silicon grease is filled inside the head to ensure the quick conductive of heat and avoid depress for the resistor. Widely used in the following applications: medical equipment, water and oil tanks, refrigerators and constant temperature equipment.

**ELECTRICAL:**

OUTPUT:  
4 - 20 mA (2 wire)  
1 - 5 V (3 wire)  
0.5 - 4.5 V (3 wire)

SUPPLY:  
10 - 30 VDC  
10 - 30 VDC  
5 V DC

**PROTECTION:**

IP65 with Standard DIN  
IP67 with Cable

**TEMPERATURE RANGE:**

-58° - 1112°F (-50° - 600°C)

**STABILITY:**

< 0.25% / Yr (typical)

**ACCURACY:**

± 0.5% Full Scale

**STORAGE TEMPERATURE:**

-40° - 257°F (-40° - 125°C)

**TEMPERATURE COEFFICIENT:**

≤ ± 0.005%/v

**RESPONSE TIME:**

10 Milliseconds

**ERROR ON SUPPLY VOLTAGE:**

≤ ± 0.005%/v

**PROBE DIAMETER:**

.236" (6mm)

**MATERIAL:**

304 Stainless Steel

**ORDERING INFORMATION**

TTR	- A	- 0/300	- 4M	- HC	- A
Model	Set Type	Temperature Range	Port Size	Terminal	Probe Length
TTR	A: 4 - 20mA (2 Wire) D: 0.5 - 4.5V (3 Wire) E: 1 - 5V (3 Wire)	Specify Temperature Range  REQUIRED °F or °C	4M - 1/4 NPT 4S - 7/16 X 20 SAE Male 8M - 1/2 NPT  Consult Factory for other sizes	C - 39" (1 Meter) Cable (Std) H - DIN 43650C Male Half Only HCC - 36" Cable HCM - DIN 43650C Mini DIN HCM.A - DIN Light NO/NC 110V HCM.B - DIN Light NO/NC 12VDC HCM.C - DIN Light NO/NC 24VDC HCM.D - Indicating Light Green/Red DI - Deutsch Integral	A - 4" B - 6" C - 10"