



Wiring Data Information													
Mini DIN Connector PIN Function (- 80)					Cable Connector WIRE Function (-.85)					Deutsch 2 Pin Wiring (- 80)			
Signal Output	Pin 1	Pin 2	Pin 3	Pin 4	Signal Output	RED	BLUE	BLACK	WHITE	Signal Output	Pin 1	Pin 2	
mA	Supply V+	Output	N/A	N/A	mA	Supply V+	N/A	Output	N/A	mA	Supply V+	Output	
V	Supply V+	Output	Common	N/A	V	Supply V+	N/A	Common	Output	V	N/A	N/A	
M12 PIN Function (- 87)					Packard Plug PIN/WIRE Function (- 89)				Deutsch 3 Pin Wiring (- 81)				
Signal Output	Pin 1	Pin 2	Pin 3	Pin 4	Signal Output	A	B	C	Signal Output	Pin A	Pin B	Pin C	
mA	Supply V+	N/A	N/A	Output	mA	N/A	Supply V+	Output	mA	N/A	N/A	N/A	
V	Supply V+	N/A	Common	Output	V	Common	Supply V+	Output	V	V+	Common	Output	

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)
0-5V
0-10V
1-5V
0.5 - 4.5 V

SUPPLY:

10 - 30 VDC(2 wire)
10 - 30 VDC(3 wire)
10 - 30 VDC(3 wire)
10 - 30 VDC(3 wire)
5 VDC(3 wire)

PROTECTION:

IP65 with Standard DIN
IP67 with Cable, Packard Plug,
Deustch Integral,M12

RESPONSE TIME:

<10 Milliseconds

PROBE DIAMETER:

.236" (6mm)

STORAGE TEMPERATURE:

-58° - 400°F (-50° - 205°C)

TEMPERATURE RANGE: (*)(**)

-40° - 400°F (-40° - 205°C)

* Special High Temperature is available - Inquire

** Special Calibration Available on Request

TEMPERATURE COEFFICIENT:

≤ ± 0.005%/v

ERROR ON SUPPLY VOLTAGE:

≤ ± 0.005%/v

STABILITY:

< 0.25% / Yr (typical)

ACCURACY:

± 0.5% Full Scale

MATERIAL:

304 Stainless Steel

MAXIMUM PRESSURE:

232 PSI ***

*** Consult Factory for Higher Pressure

ORDERING INFORMATION

TTR	- A	- 0/300	- 4M	- HCM	- A	- 80 *
Model	Set Type	Temperature Range	Port Size	Terminal	Probe Length	Pin Out
TTR	A: 4 - 20mA (2 Wire) B: 0 - 5V (3 Wire) C: 0 - 10V (3 Wire) D: 0.5 - 4.5V (3 Wire) E: 1 - 5V (3 Wire)	Specify Temperature Range -40° - 400°F (-40° - 205°C) REQUIRED °F or °C	4M - 1/4 NPT 4S - 7/16 X 20 SAE Male 4G - 1/4 BSPP (undercut for an o-ring seal) 4GS- 1/4 BSPP (no undercut) 8M - 1/2 NPT Consult Factory for other sizes	C - 39" (1 Meter) Cable (Std) M - M12 X 1 PP - Packard Connector H - DIN 43650C Male Half Only HCC - 36" Cable HCM - DIN 43650C Mini DIN DI - Deutsch Integral	A - 4" B - 6" C - 10" D - 1" E - 1-1/2"	* Advise your required Pin Out, Refer to Page 48 other Pin Out Options