



PT 100 amplifier

Amplifier for platinum probe PT100

Ranges

-50 to +200°C
-100 to +400°C
(up to 500°C)

Type

PT100

Accuracy

0.075 %FS (at 25°C)
0.1 %FS (from -40 to +125°C)

Sensitivity

Linear mV/°C
(see calibration table)

Supply voltage

6 to 30 V

Supply current

3 mA

Output voltage

0 to 5 V

Output impedance

47 Ω

Dimension

50x12x8 mm

Weight

9 g

Protection

IP64

Vibration test

20Gpp5'

Shock

500 G

Operating temp

-40 to +125°C

Storage temp

-40 to +125°C

Supply/Signal

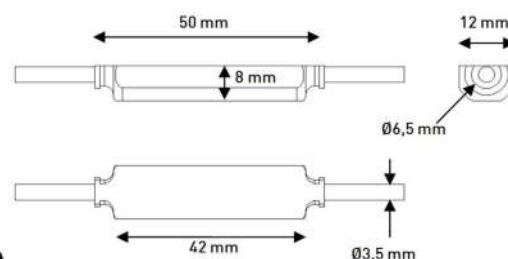
Red
Black
White or Yellow
Braid

Supply
0V supply
Signal
Not connected to case

Probe input

Red
White or Yellow
Black
Braid

R-1
R-2
R-2
Not connected to case



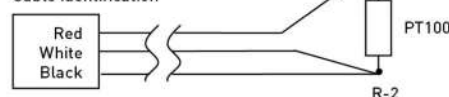
Calibration table		
Target °C	-50 to +200 16mV/°C	-100 to +400 8mV/°C
-100		0.7
-50	0.7	1.1
0	1.5	1.5
50	2.3	1.9
100	3.1	2.3
150	3.9	2.7
200	4.7	3.1
300		3.9
400		4.7

Out of range

Output = 0V for PT100 shorted
Output = 5V for PT100 open

PT100 typical 3 wires connection:

Cable identification



Ordering ref

ex: APT -100-400
APT - Type - Range
100 200
500 400
1000



PT 500 amplifier

Amplifier for platinum probe PT500

Ranges

-50 to +200°C
-100 to +400°C
(up to 500°C)

Type

PT500

Accuracy

0.075 %FS (at 25°C)
0.1 %FS (from -40 to +125°C)

Sensitivity

Linear mV/°C
(see calibration table)

Supply voltage

6 to 30 V

Supply current

3 mA

Output voltage

0 to 5 V

Output impedance

47 Ω

Dimension

50x12x8 mm

Weight

9 g

Protection

IP64

Vibration test

20Gpp5'

Shock

500 G

Operating temp

-40 to +125°C

Storage temp

-40 to +125°C

Supply/Signal

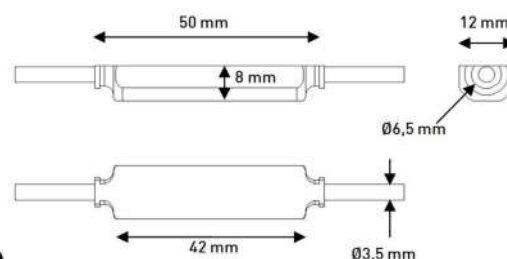
Red
Black
White or Yellow
Braid

Supply
0V supply
Signal
Not connected to case

Probe input

Red
White or Yellow
Black
Braid

R-1
R-2
R-2
Not connected to case



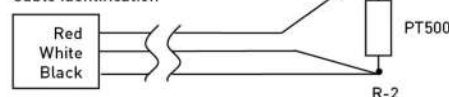
Target °C	Calibration table	
	-50 to +200 16mV/°C	-100 to +400 8mV/°C
-100		0.7
-50	0.7	1.1
0	1.5	1.5
50	2.3	1.9
100	3.1	2.3
150	3.9	2.7
200	4.7	3.1
300		3.9
400		4.7

Out of range

Output = 0V for PT500 shorted
Output = 5V for PT500 open

PT500 typical 3 wires connection:

Cable identification



Ordering ref ex: APT -500-400
APT - Type - Range

100	200
500	400
1000	

3X26AWG FEP tinned copper braided cable 250V 200°C



PT 1000 amplifier

Amplifier for platinum probe PT1000

Ranges

-50 to +200°C
-100 to +400°C
(up to 500°C)

Type

PT1000

Accuracy

0.075 %FS (at 25°C)
0.2 %FS (from -40 to +125°C)

Sensitivity

Linear mV/°C
(see calibration table)

Supply voltage

6 to 30 V

Supply current

3 mA

Output voltage

0 to 5 V

Output impedance

47 Ω

Dimension

50x12x8 mm

Weight

9 g

Protection

IP64

Vibration test

20Gpp5'

Shock

500 G

Operating temp

-40 to +125°C

Storage temp

-40 to +125°C

Supply/Signal

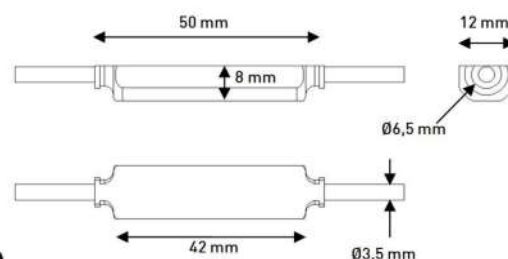
Red
Black
White or Yellow
Braid

Supply
0V supply
Signal
Not connected to case

Probe input

Red
White or Yellow
Black
Braid

R-1
R-2
R-2
Not connected to case



Target °C	Calibration table	
	-50 to +200 16mV/°C	-100 to +400 8mV/°C
-100		0.7
-50	0.7	1.1
0	1.5	1.5
50	2.3	1.9
100	3.1	2.3
150	3.9	2.7
200	4.7	3.1
300		3.9
400		4.7

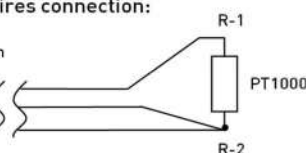
Out of range

Output = 0V for PT1000 shorted
Output = 5V for PT1000 open

PT500 typical 3 wires connection:

Cable identification

Red
White
Black



Ordering ref ex: APT - 1000 - 400
APT - Type - Range

100 200
500 400
1000

3X26AWG FEP tinned copper braided cable 250V 200°C