

T1000 Probe

Fixed Temperature Heat Switch

• Melbourne

Unit B2
2A Westall Rd
Springvale
VIC 3171
Tel (03) 9562 7577
Fax (03) 9562 8044
sales.vic@pertronic.com.au

• Sydney

Unit 19
287 Victoria Rd
Rydalmere
NSW 2116
Tel (02) 9638 7655
Fax (02) 9638 7688
sales.nsw@pertronic.com.au

• Brisbane

Unit 3
23 Anthony St
West End
QLD 4101
Tel (07) 3255 2222
Fax (07) 3255 1122
sales.qld@pertronic.com.au

• Adelaide

65 Manton St
Hindmarsh
SA 5007
Tel (08) 8340 9533
Fax (08) 8340 9544
sales.sa@pertronic.com.au

www.pertronic.com.au

The T1000 Heat Detector is a heat sensitive electrical switch. It is a fixed temperature device with a factory pre-set temperature in the range 60°C to 240°C.








The detector comprises a pair of normally open electrical contacts mounted within a stainless steel probe. A rise in temperature will cause the contacts to close at the set point temperature. With a drop in temperature the procedure reverses and the contacts re-open below the set point temperature.

The detector body is a seamless one-piece unit, precision machined from AISI 316 stainless steel with high corrosion resistance.

Electrical contacts are gold/silver plated and lead cables are nickel plated copper with PTFE/glass insulation. Cables are to aircraft engine specification.

The operating parts are factory calibrated and sealed against severe environmental conditions, further adjustment or calibration is not required












Features:

-  Resetting 'Type E' Heat Detector
-  Rate compensation and fast response
-  Wide temperature range
-  Gold plated electrical contacts
-  Corrosion and shock resistant
-  Dual mounting threads
-  ActivFire Listed: afp-979



T1000 Temperature Probe

Specifications:

 Contacts:	Normally open, close on temperature rise
 Applied voltage AC @ 0.5A:	240V max 50Hz
 Applied voltage DC @ 0.5A:	24V max
 Operating Current:	0.5A max
 Operating or Set temperature Range:	+60°C to +240°C
 Ambient continuous temperature range:	-40°C to +180°C
 Relative Humidity:	100%
 IP Rating:	IP67
 Weight:	140g
 Sensitivity and Accuracy:	+/- 5% or 5°C
 Mounting Screw Threads:	10kg torque max

Notes:

1. All electrical ratings apply to non-inductive loads. Ensure circuit inrush currents do not exceed ratings.
2. Where a detector has been subjected to a fire or overheat, the unit should be returned to Pertronic for condition check and calibration.

Temperature Settings:

Detectors may be set to any nominated temperature between 60°C and 240°C. Suggested temperature setting 50°C above maximum ambient.

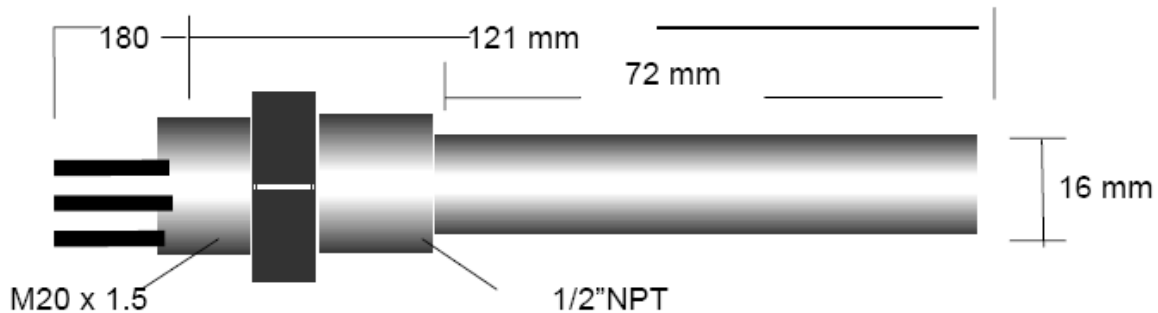
Installation:

Normal Locations:

The unit is mounted using the 20mm electrical conduit screw thread to a standard junction box or equivalent. Apply silicone sealant at cable outlets if there is a risk of water or chemical exposure.

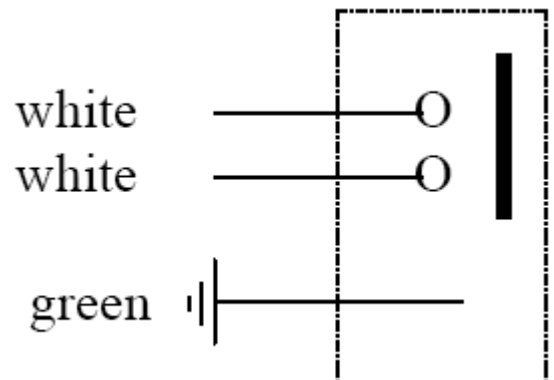
Special Through Wall Locations:

The unit is screwed into a ½"-14 NPT hole in the plant or vessel wall to a maximum torque 10Kg. Ensure the entire length of the sensing shell (72mm) is exposed to the heat source.



Circuit Diagram:

Normally open contacts close on temperature rise.
Main white leads are 20 swg with 2mm O.D. insulation
Installation and connection to be in accordance with AS1603.1, AS1603.4 and AS1670.



Identification Stamping on Hex:

Serial numbers are 4 or 5 digits eg: '1000'
Set temperature in degrees Celsius is suffixed 'C' e.g. '120C'

Identification Marking on Barrel:

'Thurman Model 1000 Detector'
'Thermal Type E Made 1994 CS96057V'

'0-240V 50Hz 0.5A 0-24 VDC 0.5A'
'Contacts close on temperature rise'

To Order:

Please specify Set temperature (degrees C)
e.g. Type E Heat Detector, Model T1000 @ 120°C.

PERTRONIC INDUSTRIES PTY LTD

Melbourne

Unit B2
2A Westall Rd
Springvale VIC 3171
Telephone: (03) 9562 7577
Fax: (03) 9562 8044
sales.vic@pertronic.com.au

Sydney

Unit 19
287 Victoria Rd
Rydalmere NSW 2116
Telephone: (02) 9638 7655
Fax: (02) 9638 7688
sales.nsw@pertronic.com.au

Brisbane

Unit 3
23 Anthony Street
West End Qld 4101
Telephone: (07) 3255 2222
Fax: (07) 3255 1122
sales.qld@pertronic.com.au

Adelaide

Unit 3
65 Manton Street
Hindmarsh 5007
Telephone: (08) 8340 9533
Fax: (08) 8340 9544
sales.sa@pertronic.com.au