

# ASPHALT TEMPERATURE MONITORING

## Therma 1 Thermometer with interchangeable thermocouple probes

- ideal for measuring asphalt & blacktop temperatures
- backlight, max/min & hold functions
- compact & robust design

The Therma 1 digital thermometer is a rugged and easy to use instrument that operates through the range of -100 to 1372 °C with a 0.1 °C or 1 °C resolution. The thermometer is housed in a robust ABS case, ideal for use in the harsh environments of road construction and maintenance.

The thermometer features a large, easy to read, LCD display with open circuit 'Err' and low battery indication. Each unit is powered by three 1.5 volt AAA batteries and will power off automatically after ten minutes, maximising battery life. This feature can be disabled by the user, if required.

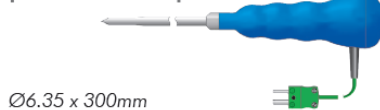
The Therma 1 is waterproof to IP63 when used in conjunction with a protective silicone boot. ETI offer a wide range of interchangeable type K thermocouple probes, a small selection of which is listed below.



specification	Therma 1
range 0.1 °C	-99.9 to 299.9 °C
range 1 °C	300 to 1372 °C
resolution	0.1 °C & 1 °C
accuracy	±0.4 °C ±0.1 % of reading
battery & life	3 x 1.5 volt AAA - 10000 hours
sensor type	K thermocouple
display	12 mm LCD
dimensions	25 x 56 x 128 mm
weight	130 grams
FREE traceable certificate of calibration included	

## Optional Thermocouple Probes

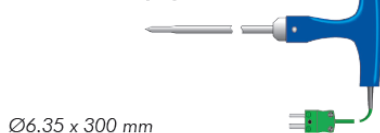
### penetration probe



Ø6.35 x 300mm

This extra long, waterproof, stainless steel penetration probe features a reduced tip and incorporates a heavy duty ribbed handle. The probe is ideal for heavy duty applications including asphalt or similar. Response time less than ten seconds. Probe temperature range -60 to 250 °C.

### reduced tip probe



Ø6.35 x 300 mm

This extra long, stainless steel, reinforced needle probe incorporates a T-shaped blue polypropylene handle and a reduced tip. The probe is ideal for heavy duty applications including asphalt or similar. Response time less than ten seconds. Probe temperature range -60 to 250 °C.

### heavy duty surface probe



Ø12 x 130 mm

This high temperature surface probe is ideal for measuring the temperature of road surfaces etc. A right-angled version is also available. Response time less than one second. Probe temperature range -60 to 1000 °C.

For more information on ETI's extensive range of probes, please contact our sales office

## RayTemp® 8 Infrared Thermometer with type K thermocouple socket

- non-contact temperature measurement
- compact & lightweight design
- two instruments in one

The RayTemp 8 portable infrared thermometer features a clear, easy to read, LCD display with low battery indication. Ideal for monitoring temperatures of asphalt on delivery and during rolling, simply aim and pull the trigger to display the surface temperature instantly.

The unit features a four-button keypad, allowing the user to select °C/°F and max/min. Additionally, the difference between the max and min temperature and the average temperature can be displayed.

The RayTemp 8 also incorporates a miniature thermocouple type K probe socket for alternative probe measurement. ETI offer a wide range of interchangeable probes, a small selection of which is listed overleaf.



specification	RayTemp 8
range - infrared	-60 to 500 °C (IR) -64 to 1370 °C (probe)
resolution	0.1 °C/°F (-9.9 to 199.9 °C) or 1 °C
accuracy - infrared	±2 % of reading or ±2 °C whichever is greater
accuracy - probe	±1 % of reading or ±1 °C whichever is greater
field of view	target ratio 12:1
emissivity	0.95 default - adjustable 0.10 to 1.00
battery & life	2 x AAA alkaline - 180 hours continuous use
display	custom LCD
dimensions	39 x 72 x 175 mm
weight	180 grams

## TN2 Infrared Thermometer with laser alignment & max/min function

The TN2 is a pocket-sized infrared thermometer that incorporates laser alignment. Simply aim and press the read button to display the surface temperature instantly over the range of -32.9 to 249.9 °C with a resolution of 0.1 °C/°F (switchable).

The IR target ratio is 6:1 and therefore the thermometer should be positioned as close to the material as practical without touching.

Each unit incorporates maximum and minimum temperature functions together with an auto-power off facility that automatically turns the instrument off after fifteen seconds, maximising battery life. The TN2 also includes a lock function for continuous temperature measurement.



specification	TN2
range	-32.9 to 249.9 °C
resolution	0.1 °C/°F
accuracy	±2 % of reading or ±2 °C whichever is greater
emissivity	0.95 default - adjustable 0.01 to 1 emissivity
battery & life	3 volt CR2032 coin cell - 40 hours
display	custom LCD
dimensions	18 x 50 x 100 mm
weight	62 grams

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**PROMAT**  
Your Solution To Testing Instrument

