

TH-5 Thermalert Monitoring Thermometer



- Large Digital Display
Reads to 1/10°C in clinical range 25-45°C
- High Stability
No calibration necessary
- Safety
Low voltage battery operation
- Long Battery Life
1200 hours

This economical, easy to use thermometer is intended for continuous monitoring in the hospital or laboratory. The digital display reads to 1/10°C. For safety, the unit is battery operated and batteries will last for 1200 hours.

In the hospital, TH-5 is used with Physitemp's clinical probes such as the RET-1 rectal probe and SST-1 skin probe or with our new line of disposable temperature sensors.

In the lab: TH-5 is used with any of Physitemp's fast reading microprobes and special animal probes. For example, RET-2 is a rectal probe for rats; IT series flexible microprobes can be used for tissue implantation, measurement of small volume liquid samples, rectal temperatures in baby mice, etc.; MT-D is a fast-reading surface microprobe.

For lab applications where strip chart recording is needed, the TH-5 can be supplied with analog output.

TH-5 Specifications

Temperature Range:	25 to 45°C
Resolution:	0.1°C
Instrument Accuracy:	0.1°C ± 1 digit
Calibration:	Conforms to National Bureau of Standards tables. Monograph 125
Readout:	1/2" liquid crystal
Batteries:	Four "C" cells
Battery Life:	1200 hours continuous
Analog Output:	Optional, extra cost. Approx. 10mV per degree C

Model TCAT-2 converts any BAT Thermometer into an Indicating Temperature Controller or an Alarm Unit. The Controller has an extremely wide temperature coverage as it works over the full range of the thermometer. For example, with Model BAT-12 it will control at any point from -100° C to + 200°C. A typical laboratory setup is shown in Figure 1 below. The instrument is easy to set up and can control to as close as 0.1° C.

When used to provide aural or visual alarms, TCAT-1 can be set to trigger at either a lower limit or an upper limit, anywhere within the thermometer range.

The Controller will also work with most transducers or instruments having a proportional DC output signal varying between 0 and 4 volts DC.

TCAT-1 will also provide subambient control when used with thermoelectric cold plates.

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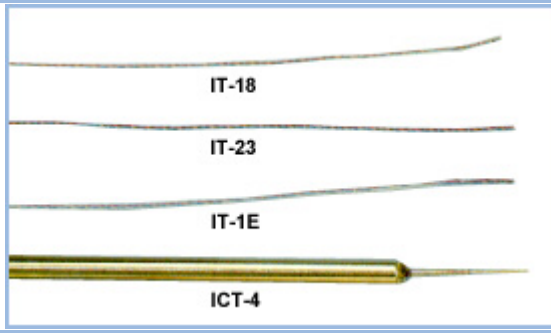
SPECIAL FEATURES

Many controllers have a tendency to "overshoot" the set temperature, especially when the specimen has large thermal mass. But Model TCAT-1 includes an output adjustment which varies the power flowing to the load, and thus the rate of heating. This can greatly minimize temperature overshoots most useful feature especially with live specimens.

A further advantage of the BAT Thermometer/ TCAT-1 setup is the precise temperature indication which it affords. This enables the user to monitor system performance and specimen temperature continuously.

Flexible Implantable Probes

Type	Dia.	Time Constant	Lead Length
IT-14	.050"	0.3 secs.	3 ft.
IT-18	.025"	0.1 secs.	3 ft.
IT-21	.016"	0.08 secs.	1 ft.



IT Series. Implantable in semi-solids and tissue with needle (supplied). Also, for immersion in various solutions and rectal temperatures of small animals. Totally sheathed in chemical resistant Teflon. Quite rugged. Max Temp. 150°C. Isolated. Type # designates needle gauge. (Or one gauge smaller in thin wall).

IT-23 - For ultra fast measurements and for use on micro-size specimens. Sensor lead only 0.009" dia. Tissue implantable with 23ga. needle (supplied). Rather fragile. Max. temp. 150°C. Time constant 0.005 secs. 3 ft. lead. Teflon coated. Isolated.

IT-1E - As IT-18 but sensor bead exposed. Combines the ultra-fast response of IT-23 with the Teflon sheath strength of IT-18. Time constant .005 secs. Isolated.