4500 High Accuracy Smart Probe Thermometer

4500
High accuracy smart probe

The Model 4500 Series Ultra-High Accuracy Thermometer take metrology-level temperature measurement to the laboratory, the production floor and the field.

Ultra-high system accuracy, ±0.015°C , is achieved because the thermometer and probe function as if they were calibrated together as a system even though they can be purchased separately. The 4500 System uses coefficients stored in each probe with the Steinhart-Hart algorithm to calculate the exact temperature reading every time you plug in a probe to take a measurement.

The 4500 series thermometers accept a wide range of plug-in probes equipped with proprietary Smart Probe system. The probes utilize super stable thermistors capable of providing high resolution, fast response and ultra high accuracy.

System Features
● High system accuracy
● NIST traceable calibration included
● Interchangeable temperature probes
● Hand-held flexibility
● Hold reading button
● °C/°F display
● Auto shut off
● Three decimal place mode
● Delta T
● Function keys
● Min/Max reading
● RS-232 serial port

Applications
● Calibrate/verify your PCR Thermal Cycler
● Reference thermometer for your liquid bath
● Clinical laboratory quality control
● Chemical & petroleum regulatory/safety
● Metrology
● Thermal cycler plate uniformity
● Autoclave integrity

Technical Specification

Resolution:	0.01°C or 0.001° C selectable
	0.001°C when using seral output
Display:	LCD 4 1/2 digit 0.6" high.
	Function icons.
Maximum Meter Range:	-40 to +150°C
	(-40 to +299°F)
Power:	9 volt Alkaline battery or external 12 VDC.
	Battery life 25 hours, typical; 15 with RS-232.
Reading Rate:	2 per second (update every 524 milliseconds)
Over Range Indication	Displays LO or HI
Operating conditions	Temperature 0°C to 45°C
	Humidity 0 to 85%

Ordering Information

Product Code	Model Number
FDB4400T	4500 High Accuracy Thermometer