TEMPOS
THERMAL PROPERTIES ANALYZER

TEMPOS
Thermal Properties Analyzer

ACCURATE READINGS AT TOP SPEED

The new TEMPOS is different. We've ripped up everything in our thermal properties analyzer and reinvented it from the ground up to give you higher accuracy in much less time, at a price you can afford. How? Accurate thermal properties measurements have always been about complex mathematics. Recent scientific breakthroughs in how these complex equations are solved have enabled not only higher accuracy, but also allowed us to calibrate using significantly improved data sets—making this instrument more accurate than any other in its class. Not only that, improved proprietary algorithms enable the TEMPOS to make these measurements with an incredible one-minute read time (versus the usual 10 to15 min).

BACKED BY 25 YEARS EXPERTISE

Twenty-five years of expertise on heat and mass transfer have enabled us to engineer the most simple, easy-to-use instrument possible. Unlike competitor instruments, which use a one-sensor-fits-all type system, the TEMPOS thermal properties analyzer automatically optimizes the reading for your material at the push of a button. And it's ready to use, straight out of the box. Just insert the needle, select your material type, and start measuring. It's that easy.

FEATURES

- Improved algorithms increase accuracy

- New one-minute read times

- Measure thermal diffusivity and specific heat at a fraction of the cost

- ASTM 5334- and IEEE 442-compliant

- Controlled heating ensures heat is constant

- Test setup easier than ever. Results displayed clearly

- Mini USB cable makes downloading data easier

- Automatically identifies the sensor you have plugged in and illustrates heating

- Extended battery life lengthens use time

- Portable: use in the field or in the lab

- Measure moist and frozen materials accurately

- Short heating times ensure no moisture movement

- Measures thermal conductivity of many fluids

- Robust sensor needles limit breakage

- Each sensor engineered for a specific material

- Automatically corrects for linear temperature drift

- Resolves temperature to ±0.001 °C

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METER
ENVIRONMENT

SPECS

Operating Environment (Sensors) Range	-50.00 – 150.00 °C
Operating Environment (Controller) Range	0.00 – 50.00 °C
Power	5 AA batteries
Battery Life	More than 250 high-power measurements
Read Modes	Manual and unattended measurement modes
Data Storage	2,048 measurements in flash memory (both raw and processed data are stored for download)
Controller	Length: 18.5 cm (7. 28 in) Width: 10.0 cm (3.94 in) Height: 3.5 cm (1.38 in)
Display Size	Width: 5.5 cm (2.17 in) Height: 4.0 cm (1.57 in)
Sensor Interface	DB-15 connector
Carrying Case	Length: 37.0 cm (14.57 in) Width: 30.0 cm (11.81 in) Height: 10.5 cm (4.13 in)

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