

# KD2 Pro

## EACH KD2 PRO COMES FACTORY CALIBRATED AND INCLUDES 3 SENSORS

The KD2 Pro is a fully portable thermal properties analyzer for use in the field or in the lab. It uses the transient line heat source method to accurately measure thermal conductivity, resistivity, diffusivity, and heat capacity. Sophisticated data analysis is based on 30+ years of research experience on heat and mass transfer in soils and other porous materials.

### SPECIFICATIONS

Measurement 90 Seconds

Accuracy\*

±5% to ± 10% Conductivity/Resistivity

±10% Thermal Diffusivity

±10% Specific Heat

Ranges\*

K: 0.02 to 4 Wm<sup>-1</sup> C<sup>-1</sup>

D: 0.1 to 1.0 mm<sup>2</sup> s<sup>-1</sup>

R: 0.5 to 50 mC W<sup>-1</sup>

C: 0.5 to 4 MJ m<sup>-3</sup> C<sup>-1</sup>

Data Storage 4095 readings

Environment -50 to 150°C

Power 4, AA Batteries

Cable 1m

\*Accuracy and measurement range vary with sensor type.

- Heated Needle Technology
- Requires No Calibration
- Displays in Engineering Units
- Small Needle Minimizes Soil Disturbance
- Compliant to ASTM D5334-08 and IEEE 442



■ KS-1  
6cm needle length  
Thermal  
conductivity/  
resistivity specific.



■ TR-1  
10cm needle length  
Thermal  
conductivity/  
resistivity; for use  
with stone or  
cement samples.



■ SH-1  
30mm dual  
needle length  
3 parameters-  
Thermal  
Conductivity,  
Thermal  
diffusivity, and  
Specific Heat.



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