Slick, Measure Thermal		Part # and Rev. 18097	
Properties		Release Date:	
Rev.	Description	Revision By	Date
Date			
	Added description from Sharpdots	Allison	6/8/16
Time			

Production Filename:

 $\frac{http://publications.decagon.com/Marketing/Description\%20Files/18097\ Slick\ Measure\ T}{hermal\ Properties.pdf}$

Printing Process: Digital

Size: 8.5 inches wide, 11 inches tall

Ink: 4/4 Color Both Sides

Paper: 100 lbs. book gloss coated

Page Count: 2

Proof type: soft proof

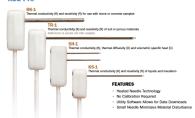
Single hole drilling: none

MEASURE THERMAL PROPERTIES

Measure thermal properties of soil and other materials with the KID2 Pro Thermal Properties Analyzer. The KID2 Pro has four interchangeable sensors which measure thermal conductivity, thermal diffusivity, thermal resistivity (rho) and volumetric heat capacity, Over 4,000 readings can be stored manually or automatically and downloaded for analysis.

KD2 Pro comes factory calibrated and includes performance verification standard

KD2 Pro



Thermal Properties of Soil Materials (T is Celsius Temperature)1

Soil Minerals	2.06	0.87	2.5	0.40
Granite	2.64	0.82	3.0	0.33
Quartz	2.66	0.80	8.8	0.11
Glass	2.71	0.84	1.0	1.00
Organic Matter	1.30	1.92	0.25	4.00
Water	1.00	4.18	0.56+0.0018T	1.65 at 25 °C
loe	0.92	2.1+0.0073T	2.22-0.011T	0.45 at 0 °C
Air (101 kPu)	(1.29-0.0041T x 10°)	1.01	0.024+0.00007T	38.8 at 25 °C

Measurement Time: 90 seconds to 10 minutes. Accuracy*: 15 to 10% Conductivity/Resistivity, ±10% Thermal Diffusivity, ±10% Specific Heat, Ranges*: K: 0.02 to 6 Wm**(***); 0.1 to 1.0 mm***: R: 0.25 to 50 m**(***); 0.5 to 4 Mm***(***). Debts Stranger. 4005 readings. Second Environment—50 to 150 **(***). Exercise Second Environment—50 to 150 **(***).

*Accuracy and measurement range vary with sensor type.

S. and J. M. Norman. 1998. An Introduction to Environmental Biophysics, 2nd Ed. Springer Worlag, New York.

25

Thermal Properties