

Document Title: Pamphlet, KD2Pro		Part # and Rev. 18060	
		Release Date:	
Rev.	Description	Revision By	Date
Date -- Time	Added description from J & H	Allison	6/16/16

Production Filename:

http://publications.decagon.com/Marketing/Description%20Files/18060_Pamphlet_KD2Pro.pdf

Printing Process: Offset

Size: 8.5 inches wide, 11 inches tall

Ink: 4/4

Paper: 100 lbs. book coated with 100 lbs. cover coated

Page count: 8

Proof type: soft proof

Thermal Sensors
Comply with Published Standards

RK-1
Accurate thermal conductivity measurements require good contact between the needle and the material being measured. That can be challenging in rock and concrete. The RK-1 rock needle package allows you to drill a hole precisely sized for the rock needle. The package includes a rock needle along with a robotamer and specialized drill bits.

SM-1
The SM-1 is used to measure thermal diffusivity and specific heat. Dual needles 3 cm long, 1.28 mm in diameter, and 6 mm apart are ideal for measuring thermal diffusivity and specific heat. One needle is the heating needle; the other monitors temperature change.

TR-1
The TR-1 needle is used to measure thermal conductivity in soil, concrete, and other granular or solid materials. 100 mm long and 2.4 mm in diameter, the TR-1 needle conforms to specifications in IEEE 442-03 Guide for Soil Thermal Resistivity Measurement.

TR-1 SENSOR SPECIFICATION
Size: 2.4 mm diameter x 100 mm long
Range: 0.1 to 100 W/m·K
- Thermal conductivity: 25 to 1000 °C (50 °F)
- Other resistivity:
Accuracy of Resistance: ± 10% from 0.2 to 4 W/m·K
± 5000 W/m·K from 10 to 10000 W/m·K
Cable length: 0.3 m

SM-1 SENSOR SPECIFICATION
Size: 3 cm (1.18 in) x 1.28 mm diameter x 6 mm apart
Range: 0.1 to 1.0 m²/s
- Thermal conductivity: 0.5 to 4 W/m·K
- Specific heat:
Accuracy of Heating: ± 10% from 0.2 to 4 W/m·K
± 5000 W/m·K from 10 to 10000 W/m·K
Cable length: 0.3 m

FOR HORIZONTAL GROUND-LOOP

- Better Long-term Efficiency
- Reduced Installation Size
- Lower Installation Costs

DECAGON DEVICES
2342 NE Hayden Court
Punta, Washington 99163
800-332-5575
Fax: 253-235-0158
www.decagon.com