

Transient Line Source

SENSORS

A range of TLS sensors designed for measurement of thermal conductivity and thermal resistivity of soil, rock, polymers and related thermophysical properties.



TLS-50 mm



TLS-100 mm



TLS-150 mm

Models	TLS-50 mm	TLS-100 mm	TLS-150 mm
Thermal Conductivity	0.3 to 5 W/m·K	0.1 to 5 W/m·K	0.1 to 3 W/m·K
Thermal Resistivity	0.2 to 3.3 mK/W	0.2 to 10 mK/W	0.3 to 10 mK/W
Measurement Time	3 minutes	3 minutes	3 minutes
Sample Size	50 mm diameter x 50 mm length to unlimited	50 mm diameter x 100 mm length to unlimited	50 mm diameter x 150 mm length to unlimited
Reproducibility	2%	2%	2%
Accuracy	5%	5%	5%
Temperature Range	-40 to 100 °C	-40 to 100 °C	-40 to 100 °C
Standards	Modified ASTM D5334-14	ASTM D5334-22a, IEEE 442-1981	ASTM D5334-14, IEEE 442-2017



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