

## THERMAL CONDUCTIVITY METER

	Description	Qty. Required
<b>Applications</b>	Thermal, conductivity measurements of Aluminum matrix Composites sheets. Metals, Alloys, ceramics both in solid and powder forms	01 No.
Radiation Source	High Speed Xenon-pulse delivery source	
Thermal Conductivity Range	0.10 to 1000 W/(m.k)	
Thermal Diffusivity Range	Should be able to measure thermal diffusivity in medium range	
<b>Repeatability</b>		
Thermal Conductivity	± 4%	
Thermal Diffusivity	±2%	
Heat capacity	± 3%	
<b>Accuracy</b>		
Thermal Conductivity	± 5%	
Thermal Diffusivity	±2%	
Heat capacity	±4%	
<b>Sample Environment</b>		
Temperature Range	RT to 600 °C	
Atmosphere	Air and Inert both	
Maximum \ samples	4	
Sample Dimension	Squared samples of L x W = (12-25.4mm) (12-25.4mm) 2- 7mm (thickness)	
Calibration Standards	Should be provided with calibration standards if needed	
Sample Preparation Accessories	Should be provided with, all sample preparation accessories for trouble free operation of at least 05 years	
Spares and Accessories	The offer should include, all spares and accessories recommended by buyer for trouble free operation of at least 10 years	
Pre-Shipment Inspection	The offer should include the cost (Boarding, Lodging, and return air I ticket) of pre-shipment inspection by Buyer's engineer at factory site.	
Installation and Commissioning	The offer should include the cost of installation and commissioning 1 by supplier at end-user's site.	