

Thermal Conductivity Meter C-ISO 500 – 011

Specification

Measuring procedure	heat flow meter method according ISO 8301, ASTM C 518, DIN EN 1946-3, EN 12664, EN 12667, EN 12939
Measuring range	in dependence of sample thickness 0.005 – 0.5 W/m·K
Sample dimensions	thickness in dependence of thermal conductivity 20 - 140 mm w x d: 300 x 300 mm (up to 500 x 500 mm at insulating material)
Mean sample temperature	in dependence of sample thickness and thermal conductivity of the sample 0°C – 60° C
Measuring inaccuracy	typically ± 1% (max. ± 5%, according ISO 8302)
Reproducibility	typically ± 0,5% (max. ± 1%, according ISO 8302)
Hot plate	aluminium, black elox, 500 x 500 mm
Cooling plate	aluminium, black elox, 500 x 500 mm
Temperature control	Peltier units with heat exchanger
Temperature measurement	10 thermocouples for direct determination of mean temperature difference (2 levels always 5 pieces), isothermal block
Heat flow meters	2 pcs, measuring area: 300 x 300 mm
Plate lifting unit	linear lifting function, electro motoric with velocity control
Measurement of thickness	digital, 0 – 200 mm, resolution 0,1 mm
Measurement of pressure	digital, 0 – 500 N, resolution 1 N
Display	7" 800 x 480 wide Touch Screen
Software	SBC, Windows® Embedded CE 7.0, Lambda 2012 CE
Operation / Display	- lifting speed
Touch screen	- pressure of the measuring plate
	- plate distance
	- start / stop measurement
	- measuring results
Interfaces	RS232, USB, Ethernet
Sample entry	from forwards (insulated sample door)
Construction	stationary device with insulated protection chamber
Operating conditions	Temperature +18 °C to +24 °C, relative humidity 5% to 65%
Dimensions	(W x D x H) 79 x 93 x 190 cm
Weight	225 kg
Power supply	230 V, 50 Hz, max. 650 W or 110 V, 60Hz
Delivery	measuring instrument C-ISO 500 - 011 power cable English manual
Options	Software Lambda 2012 for PC, PC, Monitor, Printer

Display

