

## Thermal Conductivity Measuring Device C-ISO 300-01

ISO 8301

**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  $0.005 - 0.5 \text{ W/m} \cdot \text{K}$ **Sample dimensions** thickness in dependence of thermal conductivity 20–80 mm

w x d: 100 x 100 – 300 x 300 mm

**Mean sample temperature** in dependence of sample thickness and thermal conductivity of

the sample 0°C - 60°C

Measuring inaccuracy typically  $\pm 1,0\%$  (max.  $\pm 5\%$ , according ISO 8301)

**Reproducibility** typically  $\pm 0.5\%$  (max.  $\pm 1\%$ , according ISO 8301)

**Heating /cooling plates** aluminium, black elox, 300 x 300 mm **Temperature cotrol** Peltier units with air / air heat exchangers

heat flow bidirectional possible

**Heat flow meters** 2 pcs, measuring area: 100 x 100 mm

Plate lifting unit linear lifting function, electro motoric with velocity regulation

Measurement of thicknessdigital, 0 - 120 mm, resolution 0,1 mmMeasurement of pressuredigital, 0 - 500 N, resolution 1 NDisplay7" 800 x 480 wide Touch Screen

Software SBC, Windows<sup>©</sup> 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 1x RS232, 2x USB, 1x Fast Ethernet
Sample entry from forwards (insulated sample door)

**Construction** desktop device Housing stainless steel powder-coats,

High-quality thermal isolation PE

Sample door stainless steel brushed with magnet locking temperature +18 °C to +24 °C, relative humidity 5% to 65%

**Dimensions** (W x D x H) 537 x 560 x 617 mm

Weight 72 kg

**Operating conditions** 

**Power supply** 230 V, 50 Hz, max. 430 W or 110 V/60Hz

Options 1. PC software Lambda 2012, 2. USB – connection cable,

3. Notebook, 4. PC, 5. printer

