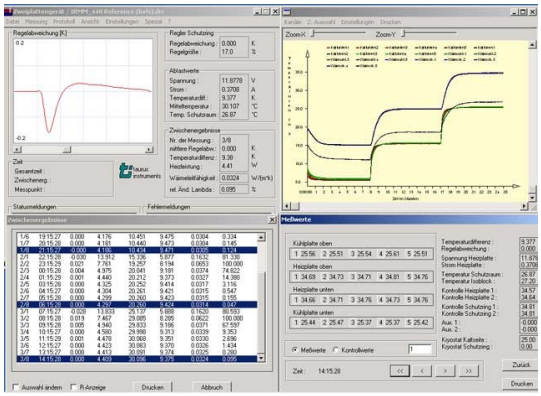
Software Package Lambda 2012

Specification

Controlling, Recording and analysis of measurement data for plate apparatus according ISO 8302, ASTM C177, DIN EN 1946-2, guarded hot plate procedure and according ISO 8301, ASTM C518, DIN EN 1946-3, EN 12664, EN 12667, EN 12939 heat flow meter procedure to run under Windows® 7 / 8

- **Communication control between the PC and measurement of the device**
- **Possibilities of administrator- and user-rights**
- **Alternatively manual or automatic measuring operational sequence with up to 5 programmable mean sample temperatures**
- **Graphic and/or numeric display of all measured values and intermediate results during the measurement.**
  - Control deviation and control dimensions of the hot plate (V)
  - Control deviation and control dimensions of the protection heater (V)
  - Heating voltage and heating current (V,A)
  - Temperature difference (mV, K)
  - Mean sample temperature (mV, ºC)
  - Temperature of the protection room (mV, ºC)
  - Number of each single measurement
  - Mean standard difference (%)
  - Mean temperature difference (mV, K)
  - Amount of heat (W)
  - Thermal conductivity (W/m, K)
  - Thermal contact resistance R (K· m^2/W)



- **Record head**
  - Name of laboratory, laboratory logo
  - Name of sample, customer
  - Number of control, Date of control
  - Laboratory technician
- **Monitoring of the complete measuring system and display of all relevant messages, disconnection in the case of critical exceeding of single measurements**
- **Measuring point function test and monitoring with specification of limit values**
- **Correction calculation of compensation layers (contact sheets) in accordance with DIN EN 12664**
- **unbalanced measurement with one sample with a guarded hot plate device (two-plate device)**
- **Calculation of the nominal value λ_D from the value $\lambda_{90/90}$**
- **automatic storage of all data (raw, intermediate and final results) in local and external (network or external storage media) data path**
- **Interface for data export in TXT-format (EXCEL; Word)**
- **graphical and numerical printing and PDF-protocol in accordance with standards**

Delivery volume CD, English manual