



Email : sales@scilabexport.com

Phone: +91-7082934803

Product Name :

Computerized Emissivity Measurement
Apparatus

Product Code :

SLE/MCE/71





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Description :

Description:

- Computerized Emissivity Measurement Apparatus offers basic experiments for targeted teaching on the topic of heat transfer by radiation.
- The reflector concentrates the radiation to a focal point.
- A sample is placed on a thermocouple located at the focal point.
- The thermal radiation emitted by the sample is measured by a thermopile.
- At the heart of the experimental unit is a metallic sample heated by a concentrated light beam.
- The light beam is generated by a continuously adjustable halogen lamp and a parabolic reflector.
- In order to be able to measure the radiation at different distances, the thermopile is mounted on a moveable carriage.
- Heat radiation is one of the three basic forms of heat transfer.
- In radiation the heat transfer takes place via electromagnetic waves.
- Unlike heat conduction and convection, heat radiation can also propagate in a vacuum. Heat radiation is not bound to

Specification:

- Halogen lamp
- Electrical power 150W
- **Max. Temperature:** approx. 560°C
- Aluminum samples, Ø 20mm
- 1x matt anodized on both sides.
- 1x nickel-plated
- 1x heavily oxidized
- Steel sample, Ø 20mm
- 1x heavily oxidized
- 1x painted on both sides.
- 1x matt anodized with one painted side.
- Copper samples, Ø 20mm.

Measuring ranges:

- **Temperature:** 0...780°C
- **Radiation intensity:** 0...1250W/m²
- **Dimension:** 700x450x400mm
- **Weight (approx.):** 20kg

Power Supply:

- 230V, 50Hz, 1 phase
- 230V, 60Hz, 1 phase; 120V, 60Hz, 1 phase

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Website: <https://scilabexport.com>, **Email:** sales@scilabexport.com

1226/1-5, Bengali Mohalla, Science Market | 133001, Hariana