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Haze meter

HM-150L2N

Replaces Discontinued Model HM-150L2



The HM-150L2N is designed to measure total light transmittance, diffuse transmittance, and haze. It is ideally suited to make these measurements for light transmissible materials such as plastics or glass. Employing a double-beam system, highly accurate and repeatable transmittance and haze measurements can be realized with the HM150-L2N.

Internal switchable filters tune the light source to the spectral characteristics of CIE standard photometric observer and CIE standard illuminant D65, but also the combination including CIE standard illuminant A. A personal computer is used for interface, calculation, and control. Several useful functions, such as average calculation, and output by printer are available. Vertical installation and horizontal sample set-up allows the operator to use the instrument easily and more effectively.

The HM-150L2N conforms to several national and international haze standards, including:

- ISO 14782 *Determination of haze for transparent materials*
- ISO 13468-1 *Determination of the total luminous transmittance of transparent materials*
- ASTM D1003 *Haze and Luminous Transmittance of Transparent Plastics* (D1003 is approximate)

HM-150L2N

Specifications

| | |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Measuring object | Light transmissible materials such as plastics, films, glass and liquid |
| SAMPLE SIZE | Sheets and the like-50×50mm up to 400×400mm |
| Measuring Light flux | Incident Port: Dia.20mm, Light Flux: Dia.14mm |
| Resolution | 0.01% in full scale |
| Measurement Item | Total light transmittance{Tt(τ)}, Diffuse transmittance {Td(τ d)}, Haze(haze Value) and Parallel light transmittance {Tp(τ p)} |
| Optical System | Conforms to ISO14782, JIS K7136 for haze measurement ISO13468-1, JIS K 7361 for Total Transmittance |

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| | |
|--------------------|---------------------------------------------------------------------|
| | Approximating to ASTM D1003&JIS7105) |
| Light Source | Halogen Lamp with a mirror, 12 V/50W Lamp Life 2000 hrs. Nominal |
| Detector | Silicone photodiode |
| Integrating Sphere | Dia.150mm with BaSO4 coated internally. |
| Repeatability | Within $\pm 0.06\%$ |
| Computer Interface | USB |
| Dimensions | L 420 × W 300 × H 560mm |
| Weight | Approximately 16 kg |
| Power Requirement | 100V \pm 10V AC, 50/60Hz |
| Power Consumption | Approx.150W |
| Accessory | Foot switch |

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