

Haze Meter

HM-150N

The HM-150N 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, films, glass and liquid. Employing a double-beam system, highly accurate and repeatable transmittance and haze measurements can be realized.

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. The instrument's high resolution provides more stabilized data displaying the values up to two decimal points.

The HM-150N 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 approximated)

Specifications

Measuring object	Light transmissible materials such as plastics, films, glass and liquid
Sample size	Sheets and the like: 50×50mm up to 150×180mm Film: Holder(option) required Liquid: Glass Cell(10mm in Light path length-option) required
Measuring Light flux	Incident Port: Dia. 20mm, Light Flux: Dia. 14mm
Resolution	0.01% in full scale
Measurement Item	Total light transmittance{ $T_t(\tau_t)$ }, Diffuse transmittance { $T_d(\tau_d)$ }, Haze(haze Value) and Parallel light transmittance { $T_p(\tau_p)$ }
Optical System	Conforms to ISO14782, JIS K7136 for haze measurement ISO13468-1, JIS K 7361 for Total Transmittance Approximating to ASTM D1003&JIS7105)
Spectral Characteristics	CIE standard photometric observer and CIE standard illuminant D65.
Light Source	Halogen Lamp with a dichromic mirror, 12 V/50W Lamp Life 2000 hrs. Nominal
Filter	Switchable between A and D65
Detector	Silicone photodiode
Computer Interface	USB or RS-232
Dimensions	L230×W560×H220mm
Weight	Approximately 13 kg
Power Requirement	100V to 220V±10V AC, 50/60Hz

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