DIGITAL LUXMETER

DESCRIPTION

The digital luxmeter is an instrument that measure light intensity (white light), with spectral sensitivity close to the Cie standard photopic curve. The light meter is equipped with a sensor connected by a flexible cable, allowing easy readings to be taken where necessary, a 3 1/2 digit LCD display for quick and accurate reading of measurements, and a support for extra convenience.

USER INSTRUCTIONS

BEFORE MEASUREMENT

1. **Switching on**: press the "Power" button to switch on the instrument.
2. **Range selection**: select the appropriate measurement range to avoid an overload reading. If an "overload" indicator appears (often a "1" at the far left of the display), switch to a higher range.
3. **Preparing the sensor**: remove the protective cap covering the sensitive element and ensure that the lens is clean and free of oil or smudges.

White light measurement for dye control

1. **Sensor positioning**: hold the sensor close to the surface of the part under inspection. The sensor probe must be held perpendicular to the direction of the light beam.
2. **Reading**: wait until the value on the screen has stabilised before recording the measurement.
3. **Reading lock**: the luxmeter is equipped with a "Hold" function. Press it to lock the current value on the display to facilitate the recording.

White light measurement for fluorescent control

1. **Interference prevention**: in fluorescent liquid penetrant (PT) or in fluorescent magnetic particle inspections (MT), a digital luxmeter is used to check the level of white light interference under UV illumination.
2. **Sensor positioning**: hold the sensor approximately 15 inches (38 cm) away from the filter area of the UV light source, keeping the probe surface perpendicular to the light beam.
3. **Recording the reading**: record the reading to ensure that the level of white light does not interfere with the visibility of the fluorescent indications.

IMPORTANT INFORMATION

- **Calibration**: to maintain reading accuracy, it is recommended to regularly calibrate the device, at least once a year and after each repair; this service is provided by CGM.
- **Sensor maintenance**: keep the light sensor clean and avoid using or storing the luxmeter in environments with high temperatures or humidity.
- **Battery**: if the low battery symbol appears on the display, replace it.
- **Standards**: always follow the specific requirements relating to viewing conditions and white light levels defined by the reference standards, such as ISO 3059 or ASTM E1417.

AVAILABLE MODELS

Part Number	Description	Ref.
05089710	Digital luxmeter type ILM 1332A	97.1M