



Light meter Lm10

- Measurement device for assessment of light quality
- Display of illuminance
- Flicker component and frequency in the range from 50 Hz up to 400 kHz
- Acoustic reproduction of the flicker in audible range and in ultrasound range
- Sensors for visible spectrum, infrared and ultraviolet range
- Microphone measuring head makes the noise of light sources in the ultrasound range audiblerbar
- Data logger for continuous recording and single-point measurement with 1 GByte storage capacity including software FM-Data

LM10 - Multi-analyzer for illumination

The light meter LM10 is a new innovate product for examination of light sources for their quality. Thereby, the parameters illuminance, flicker frequency and flicker component are measured. In addition, the flickers of the light source can be represented acoustically in the audible as well as in ultrasound range using a loudspeaker.

At optional voltage output, oscilloscope or spectrum can be connected for displaying brightness curve or frequency spectrum.

In addition, the light meter LM10L has an integrated data logger with 1 GByte data storage and a real-time clock for precise time-/date specification.

The logger has two operating modes: The permanent mode for long-term measurements and single-point measurement for specific recordings.

The download of saved measured values and the settings of LM10L-functions on the PC are done via USB-interface. The software FM-Data is used for processing and documentation of the logged measurement values.

Universally by different measuring probes

The light meter LM10 is suitable for various measurements in lighting analysis through different measuring probes.

Thus, the probes can be set for the spectrum of visible light as well as infrared und ultraviolet range.

In addition, the measurement of color temperature of light sources is possible using measuring probe without any complications and in costeffective manner.

(O) Light meter LM10

Acoustic reproduction

LM10 provides an option to make the flickers of light sources audible using an integrated loudspeaker. In addition to the flickers in audible frequency range, flicker frequencies of up to 400 kHz can also be transformed to audible range manually or automatically. Also an audio signal can be connected, proportional to the illuminance or the flickers.

Multifunctional display

In high-contrast and illuminated display, there is simultaneous display of illuminance, flicker component and ist frequency.

In addition, the infrared and ultraviolet range or the color temperature can be displayed using optional measuring probes.

E 13054 lx DM04 32% 48kHz3ca Display of illuminance, flicker component and frequency.

E 5804 l× 24% 67kHz USa LM10 in audio mode for ultrasound. The currently audible flicker frequency is displayed.

Technical information

Measuring range

 Visible
 480...660 nm

 IR
 790...1050 nm

 UV
 220...365 nm

Resolution 1 lux

Flicker frequency 50 Hz...400 kHz

DisplayLCD illumined **Display functions**Illuminance,

flicker component in % flicker frequencyin Hz

Acoustic reproduction

Audible range 50 Hz..15 kHz Ultrasound 10 kHz..400 kHz

Interface (LM10L) USB 2.0

Voltage output fourfold 0...2000 mV

(LM10S/LS)

Power supply 2 x Mignon AA Dimensions 120 x 79 x 28 mm

Operating temperature0...+40 °C

Scope of delivery

Light meter LM10 Art.-Nr. 250 LLight meter LM10, measuring probe VL10 for visible range, extension cable, manual, batteries, transport case

Light meter LM10S Art.-Nr. 251
Light meter LM10S, fourfold voltage output, measuring probe VL10 for visible range, extension cable, manual, batteries, transport case

Light meter LM10L Art.-Nr. 252 Light meter LM10L with data logger, measuring probe VL10 for visible range, extension cable, USB-cable, Software-CD FM-DATA, manual, batteries, transport case

Light meter LM10LS Art.-Nr. 253 Light meter LM10LS with data logger, fourfold voltage output, measuring probe VL10 for visible range, extension cable, USB-cable, Software-CD FM-DATA, manual, batteries, transport case

Accessories

IR-probe IR10 Art.-Nr. 263

Probes for infrared spectrum

UV-probe UV10 Art.-Nr. 265

Probes for ultraviolet spectrum

Measuring probe TF10 Art.-Nr. 266

Probes for measuring color temperature

Ultrasound probe US10 Art.-Nr. 268
Microphone measuring head for recording ultrasound, Frequency range 20 kHz.. 100 kHz

Changes reserved.

