

Измерители освещенности Т-10МА

Технические характеристики

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Illuminance Meter T-10MA

A custom version of the T-10MA illuminance meter that uses a small sensor connected by a 1m connecting cable. Providing the same level of accuracy in lx and fcd as the regular T-10MA, a waterproof model is also available with a 5 or 10 meter connecting cable.



Introduction

Compact, light-weight and easy to use multifunctional Illuminance Meter with Mini Receptor Head for special applications

The T-10MA feature a small receptor head of 16.5mm diameter with a 1m connecting cable, enabling measurements on small surfaces or situations where the receptor head of the T-10A cannot be placed.

The T-10MA is capable of measuring intermittent light sources. It has a very large measuring range of 0.01 to 299,000 lx with automatic range switching and a large, backlit LCD screen. All this with the renowned high precision level from Konica Minolta.

Main Features

- Small receptor head to measure illuminance in special situations
- Accurate measurement of Pulse modulated Light sources (PWM)
- Automatic zero adjustment for immediate measurement
- Auto-range function for a wide measurement range
- LCD backlight for low illuminance levels
- Key cover to prevent accidental operation.
- USB interface supports direct connection to a PC
- Powered by standard AA-size batteries or AC Adaptor

Features

The T-10MA is the ideal instrument if space is tight. With a receptor head of only 16mm diameter (14 mm diameter measurement area) and a 1 metre long lead, you can measure even hard-to-reach and small spots.

Applications

- Measurement in confined areas
- Spot measurements where illuminated area is small

The operational functions are accessed using just 3 large buttons. An additional operating panel for less commonly used features is found under a sliding cover. This way, you are not distracted by additional operating elements during everyday work. A large, backlit liquid crystal display shows the measurement values; the illumination is automatically switched on as soon as it gets too dark. The T-10MA offer the following possibilities for analysis:

- Absolute measurement of illuminance in Lux and foot candles.
- Comparison of illuminance values as a difference or percentage value. The target level can be entered by measurement or manual entry with the keypad.
- Integrated illuminance (exposure) with a display of the integration time and the illuminance mean value.
- Other evaluation options with the software optional T-S10w

Multiple Receptors with serial connection

The option to connect multiple receptor heads allows multi-point measurements simultaneously without having to move the instrument.

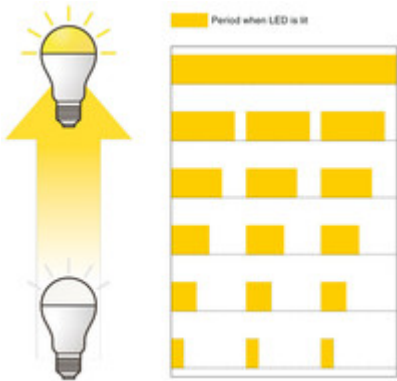
The receptor head of the T-10MA can be combined into multi-measurement systems with the normal receptor head of the T-10A.



Suitable to measure Pulse-Width Modulation (PWM) light sources

Conventional illuminance meters often cannot accurately measure Pulse Width Modulation (PWM) controlled light sources such as the increasingly widely used LED light sources.

Thanks to its special receptor design the T-10A is fully capable of accurately measure the illuminance of PWM light sources.



Specifications

Principal Specifications T-10MA

Model	Illuminace Meter T-10MA	
Type	Multi-function digital illuminance meter with detachable receptor head	
Receptor	Silicon photocell	
Relative Spectral Response*	Within 6% (f1') of the CIE spectral luminous efficiency V (λ)	
Cosine Correction Characteristics	Within ±1% at 10°; Within ±2% at 30°; Within ±6% at 50°; Within ±7% at 60°; Within ±25% at 80°	
Illuminance units	Lux (lx) or foot candles (fcd) (switchable)	
Measuring range	Auto range (manual 5 range at the time of analog output)	
Light source	Illuminance (lx). illuminance difference (lx). illuminance ratio (%). integrated illuminance (lx·h). integration time (h). average illuminance (lx).	
Measuring range	Illuminance 0.01 to 299,900 lx 0.001 to 29,990 fcd	
	Integrated illuminance 0.01 to 999,900 × 103 lx·h 0.001 to 99,990 × 103 fcd·h / 0.001 to 9999 h	
User calibration function	CCF (Colour Correction Factor) setting function	
Accuracy	±2% ±1digit of displayed value (based on Konica Minolta standard)	
Temperature / humidity drift	Within ±3% ±1digit (of value displayed at 20°C/68°F) within operating temperature/humidity range	
Digital output	USB	

Analog output	1mV/digit, 3V at maximum reading; Output impedance: 10KΩ; 90% response time: FAST setting: 1ms, SLOW setting: 1s
Operating temperature/humidity range	-10 to 40°C, relative humidity 85% or less (at 35°C) with no condensation
Storage temperature/humidity range	-20 to 55°C, relative humidity 85% or less (at 35°C) with no condensation
Power source	2 AA-size batteries / AC adapter (optional)
Battery life	72 hours or longer (when alkaline batteries are used) in continuous measurement
Standard accessories	White calibration plate CM-A 133, Zero calibration box CM-A119, AC adapter AC-A12, RS-232C cable IF-A12, Accessory Case CM-A117, Dust Cover CM-A118, Unit Driver CM-A108
Optional accessories	Receptor head ; Adapter for Multi-point ; AC Adapter ; Data processing software

Specifications are subject to change without prior notice.

Optional Accessories for T-10MA

Receptor Unit T-10MA

Receptor Head only

Item Order Code: A58U-315

Receptor Unit T-10

Receptor Head only

Item Order Code: A58U-305

Adapter T-A20

Adapter Unit for Main Body for separate connection of Head and Body

Item Order Code: 1876-710

Adapter T-A21

Adapter Unit for Receptor Head, incl. 1m cable to connect multiple Receptor Heads

Item Order Code: 1876-711

USB Connecting Cable T-A15

USB connecting Cable

Item Order Code: A32T-700

Hard Case CL-A10

Hard Case

Item Order Code: 1877-601

Printer Cable T-A12

Printer Cable

Item Order Code: 1876-701

AC Adapter AC-A308

AC Adapter 240V

Item Order Code: A32T-713

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