Luxmeter “ТКА-РКМ” (05)

Main technical characteristics of the device

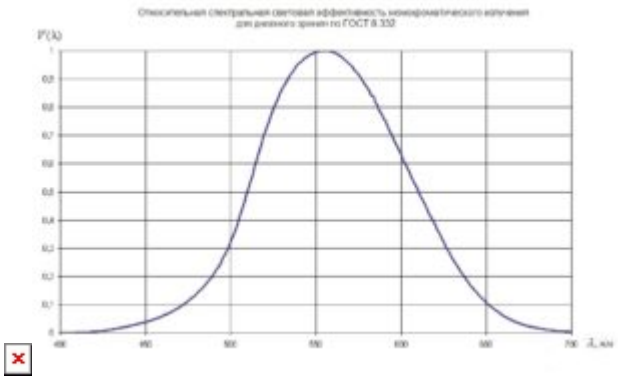
Illumination measurement range	10 ÷ 200,000 lx
Limits of the basic relative error of illumination measurements	± 8.0%
Including the limits of the permissible relative error caused by the nonlinearity of the light characteristic	± 3.0%
Including the limits of the permissible relative error caused by the deviation of the relative spectral sensitivity from the relative spectral luminous efficiency	± 5.0%
Including calibration limits for source A	± 3.0%

Including margin of error due to the spatial response of the photometric head	± 5.0%
The limits of the additional relative error of the device when measuring optical quantities, due to the change in the sensitivity of the photometric head when the air temperature in the measurement zone changes by every 10 ° C in the range from -30 ° C to 15 ° C and from + 25 ° C to 60 ° C	± 3.0%

Overall dimensions of the device

Measuring unit (no more)	160x86x31 mm
Photometric head (no more)	Ø40 x 30 mm
Device weight (no more)	0.32 kg
Battery – Krona battery standard size	9 in

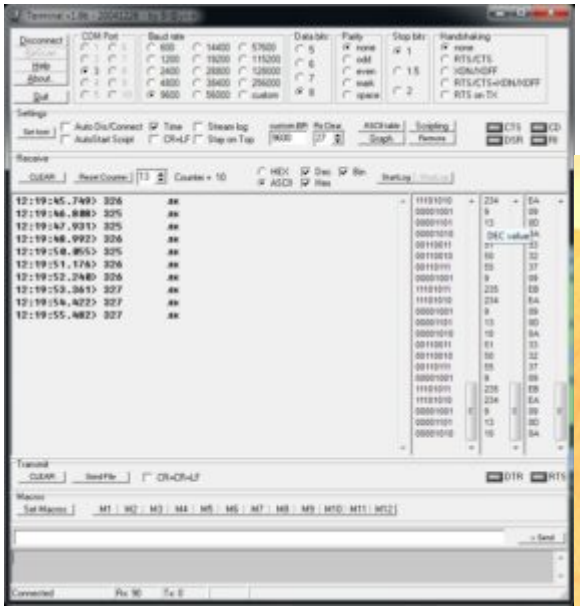
The difference in the function of the relative spectral sensitivity of photodetectors is corrected to match the function of the relative spectral luminous efficiency of monochromatic radiation for daytime vision in accordance with GOST 8.332.



Significant advantages of the device Luxmeter “TKA-PKM” (05) over analogues

The device has an automatic range change, a HOLD function, reduced power consumption, a backlit graphic indicator. Additional equipment with a PC communication interface allows: to expand the capabilities of the device without prejudice to the time of information collection, to refuse paper media during measurements of illumination parameters.

Data is transferred only from the device to a PC; a free USB port and installation of a virtual COM port driver (for Windows XP / 7/10) are required . The instrument transmits information to the serial port in text mode using the OEM 866 encoding. To receive information, it is necessary to configure the PC serial port to 9600 bps, 8 data bits, no parity and one stop bit and use any terminal program . To receive data on Android, you need a USB-hosta, a USB HARDWARE connection and a terminal program for USB <-> COM adapters (or microcontrollers) to FT232RL.



Window “terminal_v1_9b” Kit with Android tablet

Simple dump and CDC format – the device allows you to use any terminal program on various operating systems.