

“TKA-KEEPER”



Main technical characteristics

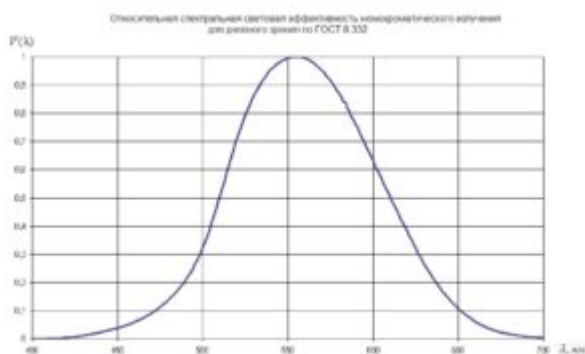
Illumination measurement range	10 ÷ 200,000 lx
Basic relative error of illumination measurements	± 8.0%
Range of indications of irradiance UV- (A + B)	1 ÷ 200,000 mW / m ²
Measurement range of irradiance UV- (A + B)	10 ÷ 40,000 mW / m ²
Basic relative error of irradiance measurements	± 10.0%
Air temperature measurement range	-30 ÷ +60 °C

Basic absolute error of temperature measurements	$\pm 0.2 \text{ } ^\circ \text{C}$
Limits of additional absolute error of air temperature measurements at air temperature, $^\circ \text{C}$ from -30 to -10 inclusive above -10 to +15 inclusive above +25 to +45 inclusive above +45 to +60	$\pm 0.3 \text{ } ^\circ \text{C}$ $\pm 0.1 \text{ } ^\circ \text{C}$ $\pm 0.1 \text{ } ^\circ \text{C}$ $\pm 0.3 \text{ } ^\circ \text{C}$
Measurement range of relative air humidity	5 ÷ 98%
Basic absolute error of relative humidity measurements	$\pm 3.0\%$ rel. ow.
Limits of the additional absolute error of relative humidity measurements when the air temperature changes by every $10 \text{ } ^\circ \text{C}$ in the range from +10 to +60 $^\circ \text{C}$	$\pm 3.0\%$ rel. ow.
The limits of the additional relative error of the device when measuring optical quantities, due to a change in the sensitivity of the photometric head when the air temperature in the measurement zone changes for every $10 \text{ } ^\circ \text{C}$ (no more)	$\pm 3.0\%$

Dimensions

– signal processing unit (no more)	130 x 70 x 30 mm
– photometric head with a probe (no more)	230 x 48 x 55 mm
Device weight (no more)	0,4 kg
Battery – Krona battery standard size	9 in

The difference in the function of the relative spectral sensitivity of the photodetector of the Luxmeter is corrected by a system of light filters to match the function of the relative spectral luminous efficiency of monochromatic radiation for daytime vision V (λ) according to GOST 8.332.



The effective reference plane of the Luxmeter coincides with the front plane of the cosine attachment of the photodetector

Substantial benefits

It combines the functions of a universal light meter, a UV radiometer with increased sensitivity, and a temperature and humidity meter. Faster response, improved performance, high precision platinum temperature sensor, low power consumption.

“TKA-KHANITEL” is a multifunctional measuring complex for research and

operational control of microclimate parameters affecting objects of socio-cultural and artistic-historical significance in museums, archives, warehouses, for use in cultural and art institutions, school and local history clubs.

- [Operation manual "TKA-KEEPER" \(* .pdf\)](#)
- [Factory calibration in accordance with MP-242-1969-2016, approved by the State Research Center for SI "VNIIM im. DI. Mendeleev "November 26, 2016](#)