“TKA-KEEPER”

Main technical characteristics

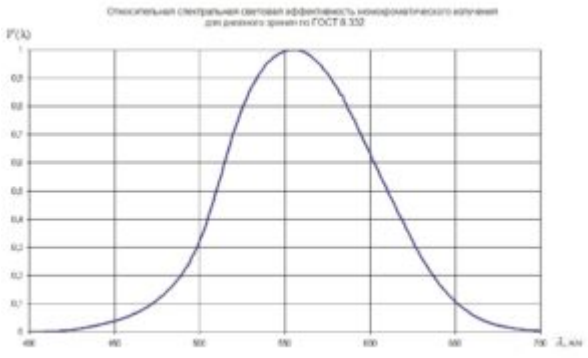
Illumination measurement range	10 ÷ 200,000 lx
Basic relative error of illumination measurements	± 8.0%
Range of **indications of irradiance** UV- (A + B)	1 ÷ 200,000 mW / m²
Measurement range **of irradiance** UV- (A + B)	10 ÷ 40,000 mW / m²
Basic relative error of irradiance measurements	± 10.0%
Air temperature measurement range	-30 ÷ +60 °C

Basic absolute error of temperature measurements	± 0.2 ° C
Limits of additional absolute error of air temperature measurements at air temperature, ° C from -30 to -10 inclusive above -10 to +15 inclusive above +25 to +45 inclusive above +45 to +60	 ± 0.3 ° C ± 0.1 ° C ± 0.1 ° C ± 0.3 ° C
Measurement range of **relative air humidity**	5 ÷ 98%
Basic absolute error of relative humidity measurements	± 3.0% rel. ow.
Limits of the additional absolute error of relative humidity measurements when the air temperature changes by every 10 ° C in the range from +10 to +60 ° C	± 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 ° C (no more)	± 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”
- Factory calibration in accordance with MP-242-1969-2016, approved by the State Research Center for SI “VNIIM im. DI. Mendeleev ”November 26, 2016