

# Thermohygrometer + Luxmeter + Brightness meter “TKA-ПКМ” (41) with verification

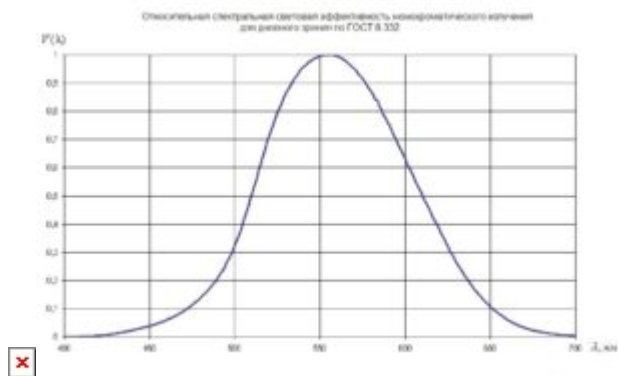


## Main technical characteristics

|                                                                 |                                  |
|-----------------------------------------------------------------|----------------------------------|
| <b>Illumination</b> measurement range                           | 10 ÷ 200,000 lx                  |
| Limits of the basic relative error of illumination measurements | ± 8.0%                           |
| <b>Brightness</b> measurement range                             | 10 ÷ 200,000 cd / m <sup>2</sup> |

|                                                                                                                                                                                                                                                                                        |                                                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| Limits of the basic relative error of brightness measurements                                                                                                                                                                                                                          | $\pm 10.0\%$                                                     |
| <b>Air temperature</b> measurement range                                                                                                                                                                                                                                               | $-30 \div +60$ ° C                                               |
| Limits of the basic absolute error of temperature measurements in the range from +15 to +25 ° C                                                                                                                                                                                        | $\pm 0.2$ ° C                                                    |
| Limits of additional absolute error of air temperature measurements at air temperature, ° C<br>from -30 to -10 inclusive<br>above -10 to +15 inclusive<br>above +25 to +45 inclusive<br>above +45 to +60                                                                               | $\pm 0.3$ ° C<br>$\pm 0.1$ ° C<br>$\pm 0.1$ ° C<br>$\pm 0.3$ ° C |
| Measurement range of <b>relative air humidity</b>                                                                                                                                                                                                                                      | $5 \div 98\%$                                                    |
| Limits of the basic absolute error of measurements of relative humidity in the range from +15 to +25 ° C                                                                                                                                                                               | $\pm 3.0\%$<br>rel. ow.                                          |
| Limits of permissible additional absolute error of relative humidity measurements when the air temperature changes by every 10 ° C in the range from -30 to +15 and over + 25 to +60 ° C                                                                                               | $\pm 3.0\%$<br>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 by every 10 ° C in the range from -30 to +15 and over. +25 to +60 ° C | $\pm 3.0\%$                                                      |

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  $V(\lambda)$  according to GOST 8.332.



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

## 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)                   | 0.3KG            |
| Battery – Krona battery standard size     | 9 in             |

Combination of several measurement channels in one device at

once. Possibility of measuring with one non-replaceable head. Compactness and ease of use.