Anemometer + Thermohygrometer “TKA-PKM” (60) with verification

Main technical characteristics

Air velocity measurement range	0.1 ÷ 20 m / s
Basic absolute error of air velocity measurements (V):	
– in the range (0.1 ÷ 1.0) m / s	± (0.045 + 0.05 V) m / s
– in the range (> 1.0 ÷ 20) m / s	± (0.1 + 0.05 V) m / s

The limits of the admissible additional absolute error of the 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, in fractions of the limits of the permissible basic absolute error	± 1.0
Air temperature measurement range	from -30 to +60 ° C
Limits of the basic absolute error of air temperature measurements at air temperatures from +15 to +25 ° C	± 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 humidity**	5 ÷ 98%
Limits of the basic absolute error of relative humidity measurements at air temperatures from +15 to +25 ° C	± 3.0% 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	± 3.0% rel. ow.

Dimensions

Signal processing unit	(205 x 65 x 28) mm
Measuring head	(375 x Ø22) mm

Device weight (no more)	0.35 kg
To power the devices is used	3.0V

Benefits

An additional measurement channel (relative humidity) expands the operational capabilities of the hot-wire anemometer. High sensitivity. High reliability and non-criticality to the characteristics of controlled flows. Multifunctionality of the anemometer.
Equipping the USB interface allows you to: expand the capabilities of the device without prejudice to the time of information retrieval, abandon paper media while reading the microclimate parameters.
In the instrument settings menu Anemometer + Thermohygrometer “TKA-PKM” (60) you can:

- enable / disable the automatic device shutdown,
- select the unit of measurement for the volumetric flow rate (l / s or m^3 / h),
- set the cross-sectional area of □□the flow.

- Nine data cells are organized in the memory of the device. One cell stores the values □□of air velocity and volumetric flow rate, as well as time stamps to the stored data.