Handheld anemometer – Meteorological station RVM96C

Very Handy

Only 0,6 kg

with application for **smart phones**

References

- Civil Protection of Slovenia
- DARS, Slovenian Higways Authority
- NATO (R&D Projects)
- China Scientific Hong Kong Ltd, China ...

Used WHENEVER other instruments, due to their design, weight, or dimensions, are unsuitable

As for: Military, Coast guard, Firemen, Oil platforms, Construction workers, Sports, Airports ...

Handheld anemometer – Meteorological station **RVM96C**

Measurements of:

- wind speed and direction
- temperature
- atmospheric pressure
- relative humidity
- horizontal orientation

Higlights:

- built-in electronic compass; accurate wind direction data without need for instrument orientation
- illuminated LC display, capable of presenting current and historic data in numeric and graphic way
- **data transmission to Android OS device via bluetooth**
- built-in calculations of mean values and extremes
- scalar or vector wind processing
- built-in storage of statistic data in the permanent internal memory (EEPROM) for 2048 intervals; data are not lost even when battery is empty or removed.
- serial data transmission to the external computer
- rechargable Li-ion battery.

Description:

Handheld anemometer – meteorological station RVM 96C is truly portable, easy to use instrument for basic field meteorological measurements. It is used in all cases, where other instruments, due to their design, weight, or dimensions, are unsuitable.

When in basic mode, RVM 96C shows on it`s **graphic LCD**, depending on the selection, one of the following types of measured data:

- **instant data**
- **average data for the selected interval**
- **minimums for the selected interval**
- **maximums for the selected interval**

Operation parameters are selected and set through the menu-organized comands. Settings and constants are stored in EEPROM, so that they are unchanged when instrument is switched off, even when battery is removed.

At the end of each data processing interval, mean values and extremes are stored with the time stamps in the EEPROM data storage. These data can be reviewed later on the instrument display or transmitted serially to the external computer. RVM 96C can store data for up to 1048 data processing intervals. This means, that data for 85 days are stored, provided that averaging interval is set to 1 hour. Data are stored on FIFO (first in – first out) principle.

System for measuring wind speed is optoelectronic, with 3-cup Robinson's cross. Direction is also measured digitally (6-bit Gray code), corrected automatically to the true wind direction by built-in electronic compass.

RVM 96C can measure wind speed in m/s, km/h, knots, or mph, and temperature in °C or °F.

Lid of a handle has standard ¼" nut to enable the attachment of the device to the **standard photographic tripod.**

General:

Dimensions	300 mm * 220 mm * 80 mm
Mass	600 g
Operating temperature	-30 °C ... +50 °C
Environmental protection	Al closed case
Display	LCD, graphic 98x65, illuminated
Connectors	3.5 stereo RS232 / 2,1x5.5 battery
Keyboard	Sealed, flat
Power supply	Built-in 3.6 V LI-ion battery
Autonomy	30 h
Power consumption	19 mA
Separate battery charger	voltage and current limiter
Data transfer	RS232*, bluetooth
Distances of data transfer	RS232: 25 m max, bluetooth: 20 m max

*default setting for RS232: Baud rate 9600, 8 bits, 1 STOP bit, no parity

Wind Speed and direction sensor:

Wind speed sensor	Robinson`s cross, optoelectrobic stroboscope
Wind direction sensor	Wind vane, 6-bit optoelectronic Gray code encoder
Wind direction transducer	6-bit Gray code encoder, wind vane
Wind speed range	0 ... 50 m/s
Wind speed constant	20 imp./m
Wind speed accuracy	+/- 0.5 m/s
Resolution of wind direction part	+/- 5.6 °
Wind direction range	0° ... 360°
Wind direction accuracy	+/- 5.6°

Battery Charger:

Input voltage	220 ... 240 V, 50 ... 60 Hz AC
Output voltage	6-13.8 V DC, nonstabilized

Relative Humidity sensor:

Sensor	combined temperature / RH sensor
Type	SHT75
Producer of sensor	Sensirion
Operating principle	Capacitive polymere
Measuring range	10 %...100 % RH
Accuracy	+/- 3 % RH
Resolution	1% RH

Atmospheric Pressure sensor:

Producer of sensor	Intersema Sensoric SA
Type	MS5534
Operating principle	piezzoresistance
Measuring range	300 mb...1100 mb
Accuracy	+- 1 mb
Resolution	0.1 mbar

Temperature sensor:

Sensor	combined temperature / RH sensor
Producer of sensor	Sensirion
Sensor type	SHT75
Accuracy	+/- 1 °C
Measuring range	-30 °C ... +50 °C

A case is provided for transport and storage of RVM 96C.

Feel free to call us!

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