Handheld anemometer - meteorological station

RVM 96C

Applications

- Military
- General Meteorology
- Offshore Oil and Gas
- Aviation
- Firemen
- Coast Guard
- Construction sites
- Sports

Features and Benefits

- Built-in electronic compass
- Illuminated LC display
- Calculations of mean and extremes values
- Scalar or vector wind processing
- Built-in storage of statistic data
- Serial or Bluetooth data transmission
- Rechargeable Li-ion battery
- Transport case included

RVM96C is a portable meteorological station, easy to use for basic field meteorological measurements: wind speed and direction, temperature, atmospheric pressure, relative humidity and horizontal orientation (compass). It is used in all cases, where other instruments, due to their design, weight, or dimensions, are unsuitable.

When in basic mode, RVM96C shows on it`s illuminated 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 and 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 (RS232). RVM96C can store data for up to 2048 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.

RVM96C can measure wind speed in m/s, km/h, knots, or mph, and temperature in ºC or ºF.

Lid of a handle has standard ¼” nut to enable the attachment of the device to the standard camera tripod.

The RVM96C is equipped with a portable case.

There is also an optional bluetooth conection with android devices so you can view the real-time or saved data on them.

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Technical specifications

	TEMP.	PRESSURE	RELATIVE HUMIDITY	WIND SPEED	WIND DIRECT.
Measuring range	-40 to +50 °C	10–1100 mbar	0-100 %RH	0–50 m/s	0° to 360°
Accuracy	+/- 0,3 °C	+/- 1 mbar	+/- 2%	+/- 0,5 m/s	+/- 2,75°
Resolution	0,1°C	0,1 mbar	1%	0,1 m/s	5,5°
Sensitivity				20 imp/m	
Starting speed				0.5 m/s	0.5 m/s
Measuring system	Sensirion, SHT75 capacitive polymere	Intersema Sensoric SA, MS5534, MEMS	Sensirion, SHT75 capacitive polymere	Robin.cross, strob.disc, optoelectr. transducer	6-bit optoelectr. transducer Gray code
Power supply	built-in 3.6 V LI-ion battery, 30h autonomy				
Power consumption	19 mA				
Separate battery charger	voltage and current limited, included charger 220-240 VAC, 50-60 Hz, 6-13.8 VDC, unstabilized				
Display	LCD, graphical 98x65, illuminated				
Keyboard	sealed, low-profile				
Operating temperature	-40 to + 60 °C				
Storage temperature	-50 to + 80 °C				
Connector	RS232, 2,1x5.5 battery				
Cable	DB-9, 1,5m				
Dimensions	300 mm x 220 mm x 80 mm (L x W x H)				
Mass	600 g				
Mounting	threaded hole for camera tripod (1/4 - 20 UNC)				
Material	body – anodised aluminium Robinson's cup - UV stabilized plastic				
Casing protection	IP 51				
Carrying weight (with case)	about 3kg				
Output signal	RS232 (to 15m) serial, adjustable speed, 8 bits, 1 STOP bit, no parity				
Option output signal	Bluetooth				

AMES d.o.o.
Na Lazih 30
SI-1351 Brezovica
Slovenia, Europe

T: +386 1 365 70 86
F: +386 1 365 71 02
E: info@ames.si

www.ames.si