

WINDVANE type DIR21+

Low cost Potentiometer type wind vane



Also available with integrated 2 wire 4-20mA output (type DIR21+/4-20mA)

Windvane DIR21+ is a reliable wind direction sensor and is intended for general professional applications, such as: meteorology, wind energy applications, environmental technology etc. Rugged components stand up to hurricane-force winds, yet are sensitive to a light breeze. Includes sealed stainless-steel bearings for long life. The range and accuracy specifications of this unit have been verified in wind-tunnel tests. The DIR21+ windvane reported wind speeds of 250 km/h. The DIR 21+ is easy to install (using stainless steel vertical M5 bolt), easy to connect and easy to service. Standard cable length is 2 meter which can be extended to any length (<75 m) using an optional waterproof cable connector. Can be used together with MAX40+ anemometer in combination with datalogger EKO21N or iBOX.

SPECIFICATIONS

General:

WindDirection

Wind vane with long life potentiometer with stainless steel shaft

Life time

expected life time > 5 years

Required Cable Type

3 wire conductor (shielded)

Cable length

standard 2 meter, to expand using a connection kit

Recommended Maximum Cable Length

< 75 meter

Material:

Wind Vane

UV -resistant ABS, total length 22 cm, overall height 16 cm

Housing

Delrin, Waterproof

Weight

0,5 kg

Damping ratio

appr 0,4

Mounting:

By M5 bolt

Wind Direction Range

0° to 360° (mechanical angle) lineair function with potentiometer value

Accuracy

north is 0/360 degrees, south is 180 degrees, with south indicator

Wind Direction

appr +/- 3 degr , (dead band appr +/- 3 degrees) , meet WMO requirements

Connections

Standard cable length 2 meter (to expand using connection kit)

Brown

Supply voltage (recommended appr. 5 V DC)

Green

Ground

White

Wind direction potentiometer wiper (typ 20 kOhm)

Standard factory calibration

zero value of potmeter between 0-3 degrees, max value at typ 357 degrees

(dead band appr +/- 3 degr at 0-360), half value of potmeter at typ 180 degrees

- mounting stub mast (10cm) of stainless steel with M5 bolt

- extra cable and waterproof cable connector

- sensor mounting arm for mast is available (for any diameter mast size)

Options: