

WINDVANE type DIR21+



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, 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 EKO21, signal transducer EKO22CN or with Vantage PRO weather station (special version).

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
Dimensions cabinet	diameter 45 mm , height 32 mm
Weight	0,5 kg
Damping ratio	appr 0,4
<u>Mounting:</u>	By M5 bolt

Range

Wind Direction	0° to 360° (mechanical angle)
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Accuracy

Wind Direction	appr +/- 3 degr
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Connections

Brown	Standard cable length 2 meter (to expand using connection kit)
Green	Supply voltage (recommended appr. 5 V DC)
White	Ground
	Wind direction potentiometer wiper (360° = 20 kOhm)

Options:

- mounting stub mast (10cm) of stainless steel with M5 bolt
- extra cable and waterproof cable connector
- heating with controller
- sensor mounting arm for mast up to 50 mm is available.
- **built-in 4..20 mA transducer with two wire output!**

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