# WV4403 v2 4-20mA

## INTRODUCTION

High resistance to radio frequency intereferences (RFI) and electromagnetics (EMI) Magnetic sensor, unlimited life and no dead zones Analog output 4-20 mA. Passive output (2 wire connection) Power supply: 12...30 Vdc (common 24 Vdc) The wind vane should be oriented north and its output signal will Made of aluminium and high quality technical plastics correspond to the angles and

Up to 200 km/h of wind-speed

Easy connecting. 20 m cable included

Excellent resistance against impacts, overload, crashes and erosion

No maintenance required

## FEATURES

Enhanced wind direction sensor with robust design, compact and modern. Manufactured of aluminium and high quality technical plastics Dust and water proof. Corrosion and UV resistant

# APPLICATIONS

The wind direction sensor WM4403 v2 has been designed for the use in industrial and domestic applications. Connected to devices such as data acquisition systems, PLCs, displays of analog signals (see our ref. WM44 EVO11, V10, V12, V201, BS100/3 4-20 mA) it measures the wind direction, registers it and/or activates predefined alarm levels.

directions of the table.

#### Examples of use:

Irrigation control systems, automation in greenhouses, solar trackers, lifts at ski resorts, cranes, wind turbines, climate and weather stations and so on. To sum up, all applications that contribute to greater control and security in their facilities.

OPERATING	Chart relating Wind direction - Analog output		
	Direction		Analog output
Inputs/outputs	North	0.0	4mA
Up to 200 km/h wind speed	North-Northeast	22.5	5mA
Power supply: 1230 Vdc (common 24 Vdc)	Northeast	45.0	6mA
Output: Analog= 4-20 mA	East-Northeast	67.5	7mA
(see table at right)	East	90.0	8mA
	East-Southeast	112.5	9mA
128mm	Southeast	135.0	10mA
	South-Southeast	157.5	11mA
	South	180.0	12mA
	South-Southwest	202.5	13mA
	Southwest	225.0	14mA
	West-southwest	247.5	15mA
	West	270.0	16mA
	West-Northwest	292.5	17mA
	Northwest	315.0	18mA
	North-northwest	337.5	19mA
	Static wind	If the wind speed than 3 km/h. the uncer	is lower or equal angle will be rtain.

# Wind vane orientation: To orientate the wind vane to the NORTH, align it NORTH with the edge of the base as it is indicated on the label

The wind vane should be oriented north and its output signal will correspond to the angles and directions of the table.



# TECHNICAL SPECIFICATIONS

Power Supply WV4403 v2 4-20mA	1230 Vdc (common 24 Vdc)	Connectable load impedance	$R_L < \frac{V_{CC} - 8V}{0.02A}$ [Ohm]
Analog Output	4 -20 mA	Tª de almacenaje	-35°C +85°C
Starting speed	3 km/h	Operating temp. (free ice)	-20°C +85°C
Measure range	0~360°	Weight	200 g approx.
Resolution	22.5°	Weight (cable= 20meters)	1300 g approx.
Accuracy	+/- 3°		

#### WV4403 v2 4-20mA Wiring

Type of connection	Connection	Color
2-Wire. Passive output	Vcc	Red
	lout	Yellow
	NC or GND	Black



Enhanced wind vane sensor with analog output 4-20mA



