

WIND DIRECTION (Wind vane)

Compact wind vane



- Completly made in anodized aluminium assuring long life time with high protection grade to severe weather conditions and strong winds
- 0...1 V output. 10...30 V DC power supply
- High precision magnetic encoder for true full 0...360° measurement range
- Supplied with water-proof free connector (3wires+ground) for easy connection to cable

With compact size and high mechanical strength, DNA212.1 sensor is particularly suited for use in strong wind applications, where long term reliability without maintenance is required, as in wind farms and wind turbine surveys. Ideal also for portable and light AWS and for wind-alarm applications where wind speed and direction are both important issues. On this regard, LSI LASTEM data loggers can detect specific alarm conditions and open digital outputs when wind speed is over a programmable value and wind direction is coming from a defined angle.

PN	DNA212.1	
Wind direction	Principle	Wind vane anemometer with magnetic Encoder
	Measuring range	0360°
	Threshold	0.4 m/s
	Accuracy	3°
	Resolution	1°
General Information	Output	01 V
	Connector	7 pin male IP65 watertight connector
	Housing	Anodized aluminum
	Power supply	1030 V DC
	Power consumption	0.4 W
	EMC	EN 6132-1 2013
	Protection grade	IP66
	Mounting	Mast Ø 4850 mm
	Operative temperature	-4860°C (without ice)
	Data logger compatibility	E-Log, Alpha-Log

Technical Specifications



Accessories

·····	DYA046	Coupling bar For WS+WD sensors on Ø 4565 mm pole
	DWA505A	Cable L=5 m
	DWA510A	Cable L=10 m
	DWA525A	Cable L=25 m
	DWA526A	Cable L=50 m
	MG2251.R	7 pin free female connector
	DNA218.R	Spare part: vane
	MM2001	Spare part: bearing
	SVICA2304	ISO9001 type calibration certificate
	CCDCA0004A	Adapter to connect the old DNA212's cable to the new DNA212.1 sensor

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Wind direction sensor with analogue outputs. These wind vanes are ideal when requirements call for simple integration with third party systems. DNA301.1-311.1 thanks to the 0...1 V output are ideal to be connected also to LSI LASTEM's acquisition systems. Low Delay Distance values and high precisiong magnetic encoder allow to obtain good accuracy even at very low wind speed conditions. DNA311.1-DNA811 version are equipped with heaters to avoid ice formation on their body in very cold environments.

Codice	DNA310.1	DNA311.1	DNA810	DNA811	DNA816
Principle	Magnetic encoder				
Output	01 V DC		420 mA		05 V DC
Power supply	1030 V AC/DC	24 V AC	1030 V AC/DC	24 V AC	1030 V AC/DC
Max. load	300 Ohm		-		
Heater	-	YES	-	YES	-
Heater operative temperature	-	>-204 °C	-	>-204 °C	-
Power Consumption	0.5 W	0.4 W+20 W (heater)	0.5 W	0.5 W+20 W (heater)	0.5 W
EMC	EN 6132-1 2013				
Data logger compatibility	E-Log, Alpha-Log			-	

Technical Specifications



Common Technical Specifications

Wind direction	Measuring range	0360°
	Accuracy	2°
	Threshold	0.15 m/s
	Delay distance	1.2 m (@ 10 m/s). According to VDI3786 and ASTM 5366-96
	Damping coeff.	0.21 (@ 10 m/s). According to VDI3786 and ASTM 5096-96
General Information	Connector	7 pin IP65 watertight connector
	Housing	Anodized aluminum
	EMC	EN 61326-1: 2013
	Protection grade	IP66
	Operative temperature	-4080 °C (without ice)
	Mounting	Mast Ø 4850 mm

Accessories

	DYA046	Coupling bar For WS+WD sensors on Ø 4565 mm pole
	DWA505A	Cable L=5 m
	DWA510A	Cable L=10 m
	DWA525A	Cable L=25 m
	DWA526A	Cable L=50 m
	DWA527A	Cable L=100 m
	MG2251.R	7 pin free female connector
	DNA217.R	Spare part: vane
	MM2025	Spare part: bearing
	SVICA2304	ISO9001 type calibration certificate (Wind Direction)

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