

With compact size and high mechanical strength, these sensors are particularly suited for uses in strong wind applications, where long term reliability without maintenance is required, as in wind farms and wind turbine surveys. These sensors are compatible with many LSI LASTEM data loggers, but they can be also easily integrated with third party systems, thanks to a high quality relay-reed-generated linear pulse output.

Order numb.	DNA202.1	
Wind speed	Principle	3 cups anemometer with Relay Reed
	Measuring range	075 m/s (damage limit)
	Accuracy	± 0.5 m/s (010 m/s), 2.5% (>10 m/s) ± 0.1 m/s or ±1% (using transfer formula)
	Threshold	0,5 m/s
General Information	Output	N.6 pulse/round 2.62.8 Hz x m/s
	Max. load	12 Vdc @5 mA
	Connector	7 pin male IP65 watertight connector
	Cable	Compatibility with DWA5xxA cable (not incuded, see Accessories)
	Housing	Anodized aluminum,
	Operative temperature	-3570°C (without ice)
	Protection degree	IP66
	Mounting	Mast Ø 4850 mm
	Data logger compatibility	E-Log A-Log using ALIEM module

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
	DNA208.R	Spare part: rotor
	MM2001	Spare part: Bearing
	SVICA2203	ISO9001 type calibration certificate (Wind Speed)
	SVACA2216	ISO17025-ACCREDIA type calibration certificate (Wind Speed)
	DEA420.1	STB - Signal transducer Box for DNA202.1 wind speed sensor. Output: 420 mA
		Power supply 1030 Vac/dc For more technical information, see MW9008 catalogue
	MDMMA1010.1	MSB—Modbus Sensor Box
		Same features as DEA420.1, but:
		Output: RS-485 Modbus-RTU



LSI LASTEM is an ISO17025 accreditated laboratory for air speed measurements. All sensors manufactured are tested inside this laboratory. LSI LASTEM provides Test report for any sensor supplied and on request, ISO17025 or ISO9001 calibration certificates (see Accessories list).

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DNA202.1 wind speed sensor can be mounted together with the DNA212.1 wind direction sensor using the DYA046 coupling bar. On the same coupling bar room for additional sensor as Temperature&RH% and Radiation sensors is available.

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Wind speed sensor versions with frequency signal output (Hz/m/s) and versions with analogue signal outputs. These anemometers are ideal when requirements call for low thresholds and good accuracy even at very low wind speed. The wind speed element is a tachometer with 32 steps ensuring very high resolution.

DNA302.1 is equipped with heater. DNA301.1, with its extreme-low power consumption, can be used in applications with very low energy availability.

Analogue signal output models are based on microprocessor technology: every sensor has, on the basis of its particular geometry, different response on each point of his measuring range; the microprocessor adjusts the signal linearity at any wind speed value, obtaining a precise and stable output. DNA802 and DNA806 models are equipped with heaters.

Technical Specifications

PN	DNA301.1 DNA302.1		
Measuring range (damage limit)	075 m/s		
Output	0883 Hz (13 Hz/m/s)		
Power supply	1030 Vac/dc	24 Vdc/Vac @ 20 W	
Heater	-	YES (-20°C) switch-on temperature: 4°C	
Power consumption	Max. 0.4 W 0.4 W + 20 W (heater)		
Data logger compatibility	E-Log A-Log using ALIEM module		



Environmental Monitoring Solutions

Standard anemometer

Technical Specifications

PN	DNA801 DNA801.1	DNA802	DNA805	DNA806	DNA807
Output	420 mA	420 mA	020 mA	020 mA	05 Vdc
Measuring range	050 m/s, DNA801.1 only: 060 m/s				
Power supply	1030 Vac/dc	24 Vdc/Vac	1030 Vac/dc	24 Vdc/Vac	1030 Vac/Vdc
Max. Load	300 Ohm	300 Ohm	300 Ohm	300 Ohm	-
Heater	-	YES (-20°C)	-	YES (-20°C)	-
Heater operative temperature	-	>-204°C	-	>-204°C	-
Power consumption	0.5 W	0.5 W + 20 W (heater)	0.5 W	0.5 W + 20 W (heater)	0.5 W
Compatibilità con data logger	E-Log, A-Log			-	

Common Technical Specifications

Wind speed	Principle	3 cups anemometer with N.32 step optoelectronic disk
	Accuracy	± 0,25 m/s or 3% (025 m/s) 2% (>25 m/s) ± 0.1 m/s or ±1% (using transfer formula)
	Threshold	0.26 m/s
	Resolution	0.06 m/s
	Delay distance	4.8 m (at 10 m/s). Acc to VDI3786 and ASTM 5096-96
General Information	Operative damage limit	75 m/s
	Connector	7 pin IP65 watertight connector
	Housing	Anodized aluminum
	EMC	EN 6132-1 2013
	Protection degree	IP66
	Operative temperature	-4070°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
	DNA204.R	Spare part: rotor
	MM2025	Spare part: bearings
	SVICA2203	ISO9001 type calibration certificate (Wind Speed)
	SVACA2216	ISO17025-ACCREDIA type calibration certificate (Wind Speed)



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