



Compact wind vane

With compact size and high mechanical strength, these sensors are 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 to be considered. 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.

Order numb.

DNA212

Wind speed

<i>Principle</i>	Hall effect sensor
<i>Measuring range</i>	0÷360°
<i>Threshold</i>	0,25 m/s
<i>Uncertainty</i>	5°

General information

<i>Output</i>	0÷1 V
<i>Connector</i>	4 pin IP65 watertight connector
<i>Housing</i>	Anodized aluminum
<i>Power supply</i>	10÷14 Vdc
<i>Power consumption</i>	10 mA
<i>Mounting</i>	Mast ø 48 ÷ 50 mm
<i>Operative temperature</i>	-35÷ +70°C (without ice)
<i>Data logger compatibility</i>	M-Log (ELO007-008), R-Log (ELR515), E-Log (all models)

Accessories

Order numb.



MN1071	Cable each meter
DYA046	Coupling bar For WS+WD sensors on ø 45 ÷65 mm pole
DNA218	Spare part: vane
MC1040	Spare part: screw for DNA218 vane
MM2001	Spare part: bearing



DYA046



Standard wind vane (direct output)

Wind direction sensor with direct signal output. These wind vanes are ideal when requirements calls for low thresholds and good accuracy even at very low wind speed. DNA310-311#C uses a Hall-effect encoding system. DNA314#C is equipped with a potentiometer to reduce power consumption in very low energy applications. DNA311#C is also equipped with heaters to avoid ice formation on its body in very cold environments.

Order numb.	DNA310#C	DNA311#C	DNA314#C
Principle	Hall effect sensor		Potentiometer
Output	0÷1 V		0-2000 Ω
Power supply	12 Vdc	24 Vdc/ac (heater) 12 Vdc (direction)	-
Heater	-	SI	-
Heater operative temperature		>-20°C	
Power consumption	10 mA	20 W	Max 2 mA
Calibration certificate	Included		
Data logger compatibility	M-Log (ELO007-008), R-Log (ELR515), E-Log (all models)		



Standard wind vane (analog output)

Wind direction sensor with analog signal output. All models use a Hall-effect encoding system. DNA811-815 are equipped with heaters to avoid ice formation on its body in very cold environments.

Order numb.	DNA810	DNA811	DNA814	DNA815	DNA816
Principle	Hall effect sensor				
Output	4÷20 mA		0÷20 mA		0÷5 Vdc
Power supply	10÷30 Vca/cc	24 Vca/cc	10÷30 Vca/ Vcc	24 Vca/cc	10÷30 Vca/cc
Heater	-	YES	-	YES	-
Heater operative temperature		>-20°C		>-20°C	
Power consumption	0,5 W	20 W	0,5 W	20 W	0,5 W

Common features

Wind direction	<i>Measuring range</i>	0÷360°
	<i>Uncertainty</i>	3°
	<i>Threshold</i>	0,15 m/s
	<i>Delay distance</i>	1,2 m (at 10 m/s). According to VDI3786 and ASTM 5366-96
	<i>Damping coeff.</i>	0,21 (at 10 m/s). According to VDI3786 and ASTM 5096-96
General information	<i>Connector</i>	7 pin IP65 watertight connector
	<i>Housing</i>	Anodized aluminum
	<i>Operative temperature</i>	-35÷ +70°C (without ice)
	<i>Mounting</i>	Mast ø 48 ÷ 50 mm

continued



Accessories**Order numb.**

DYA046	Coupling bar For WS+WD sensors on $\varnothing 45 \pm 65$ mm pole
DZC404	Calibration certificate Included in DNA010-011#C
DNA110	Cable for DNA31x#C L = 10 m
DNA125	Cable for DNA31x#C L = 25 m
DNA126	Cable for DNA31x#C L = 50 m
MG2252	7 pin free male connector for DNA31x#C
DWA510	Cable for DNA81x L = 10 m
DWA525	Cable for DNA81x L = 25 m
DWA526	Cable for DNA81x L = 50 m
DWA527	Cable for DNA81x L = 100 m
MG2251	7 pin free female connector for DNA81x sensors
DNA217	Spare part: rotor
MC1040	Spare part: screw for DNA217 rotor
MM2025	Spare part: bearings





Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.



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Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.