



## Mod. **DVE**

### Wind Direction Sensor

## Highlighted specs

- Very high precision Wind Direction Sensor (better than 0.3°)
- Compact and light design in aluminium
- Typical range 0÷360°N
- High dynamic response to wind with very low friction
- WMO standards compliant
- Suitable for marine application
- IP68 fast connection
- Heated option available for low temperature application
- According to **CE** and EN 15518-3:2011 norms

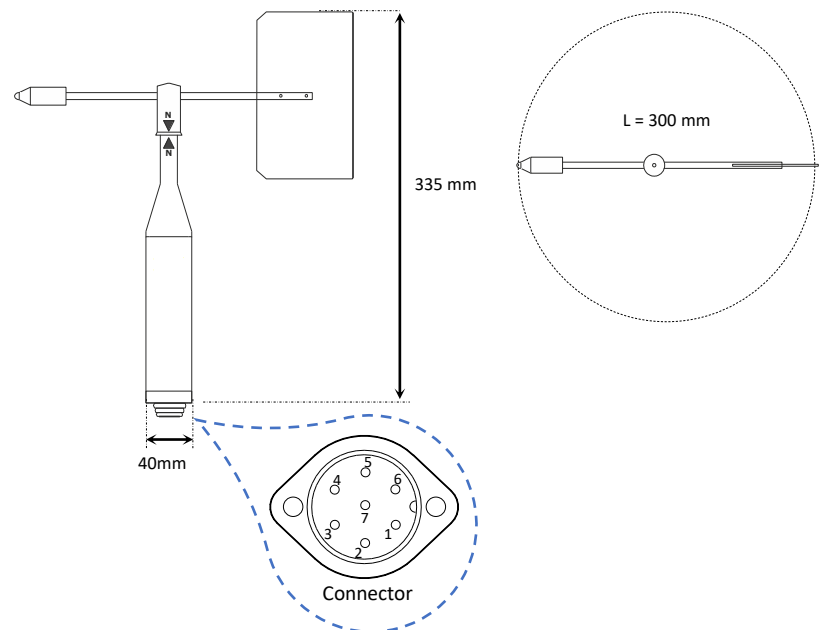
The sensor for wind direction measure (Gonio-anemometer) is made of materials with high reliability and durability, which maintain for a long time the features of sensitivity and precision. The mechanical body shape allows to resist at high wind speed or squalls (up to 300km/h). Using a **special magnetic encoder** ensures **very high resolution and accuracy** by eliminating any mechanical friction in a **full operating angle of 360°**. The output signal is normalized in voltage or current (4÷20mA or 0÷2Vdc), or digital on RS485/Modbus, available with **heater at low power (5W@12Vdc)**. The sensor is manufactured **according to standard WMO** (World Meteorological Organization) and to **EN 15518-3:2011** norm.

<b>Typical measurement range</b>	0 ÷ 360° full range
<b>Resolution</b>	<0.15°
<b>Accuracy</b>	± 0.3° (sensitivity: 0.21m/s threshold < 0.35m/s)
<b>Type of transducer</b>	Vane with high accuracy magnetic encoder (12bit)
<b>Signal output</b>	0÷2Vdc, 4÷20mA, ModBus RS485
<b>Working conditions</b>	-10 ÷ +70°C - 0÷100% Humidity; blasts 0 ÷ 80 m/s (-35 ÷ +70°C heated version)
<b>Protections</b>	Polarity reverse and transient
<b>Made of</b>	Anodized aluminium and stainless steel
<b>Power supply and consumption</b>	10 ÷ 28Vdc; <0,1W (5W@12Vdc heated version)
<b>Weight</b>	<460g

## Size and connections

Pin	DVE-A DVER-A	DVE-B DVER-B	DVE-C DVER-C
1			
2	+ Out	+ Out	RS485 A
3	- Out	- Out	RS485 B
4	Gnd	Gnd	Gnd
5	Vdc(10÷28V)	Vdc(10÷28V)	Vdc(10÷28V)
6*	+12V Heater	+12V Heater	+12V Heater
7*	Gnd Heater	Gnd Heater	Gnd Heater

\*Heated version only



## Order Code

Sensor	Output	Accessories	DVE	DVER		
Wind direction sensor Heated wind direction sensor	0÷2Vdc 4÷20mA RS485 / Modbus	CS05 – Cable 5m sensor-datalogger CS10 – Cable 10m sensor-datalogger CSxx – Cable xx* m length, sensor-datalogger – to be specified at order SSU – Sensor support L=700-750mm	A B C		05 10 xx	SSU

\*specify the length for no standard measures

example of order code

**DVE B 10 SSU**