Mod. VV1

First Class Wind Speed Sensor

FIRST CLASS		
Class A	Class B	Class S
1.96	3.05	2.42

Highlighted specs

- High precision <0,1m/s
- High linearity R>0,99998
- Calibrations: MeasNet and ISO17025
- Classification IEC 61400-12-1 and EN 15518-3:2011 compliant
- WMO standards compliant
- Low power consumption heated version (5W@12Vdc)
- Rotor with high speed and long life ball bearing (MIL-L-6085 C)
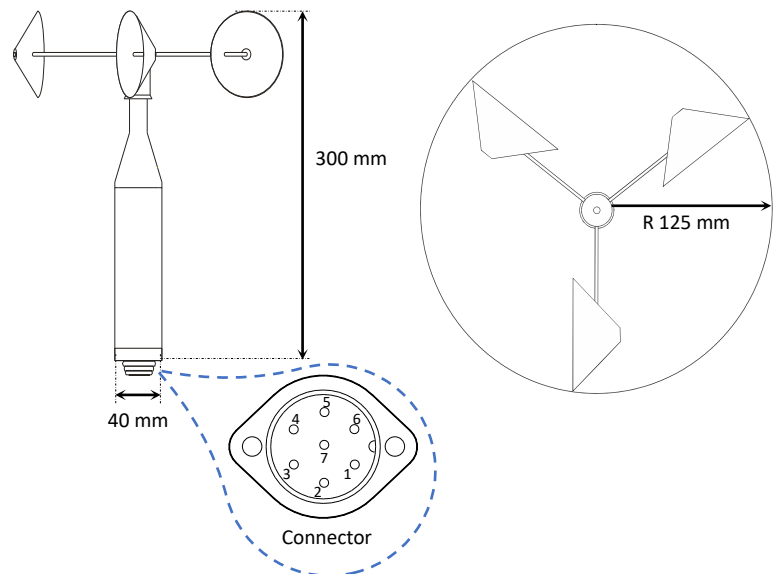- According to CE norms
- IP68 fast connection

First Class anemometer with **very high precision**, manufactured to meet the strictest standards for measuring the wind such as the **IEC61400-12** for eolic monitoring. They are high performance instruments, **certificated MeasNet,** made in metal with high quality materials to ensure reliability and durability, allowing to maintain over time the initial features of sensitivity and precision. They are **compliant with WMO norms** (World Meteorological Organization) and to **EN 15518-3:2011 norm**. Available with different signal outputs, normalized voltage or current 0÷2Vdc, 4÷20mA or **RS485/Modbus**, and a **heated version with low consumption (<5W @ 12Vdc).**

Typical measurement range	0.28 ÷ 50 m/s (0...150Hz) up to 100m/s (freq. output)
Resolution	0.05m/s wind run
Average accuracy	<0.1 m/s (0.4 ÷ 30m/s); <± 1% v.m. (>30 m/s)
Typical linearity	**r>0.99998** standard error 0.02m/s; **(m/s)= (Hz x 0.30) + 0.3**
Threshold	stopping 0.1 m/s; starting <0.3 m/s
Type of transducer	3 cups (Robinson reel) with magnetic transducer
Signal output	0÷2Vdc, 4÷20mA; 0÷150Hz (50 Ohm on 20mA max), Digital RS485/ModBus
Working conditions	-10 ÷ +70°C - 0÷100% Humidity; blasts 0 ÷ 100 m/s (**-40 ÷ +70°C heated version**)
Protections	Polarity reverse and transient
Made of	Anodized aluminium and stainless steel
Power supply and consumption	10 ÷ 28Vdc <0,1W; **5W@12Vdc heated version**
Weight	<390g

Size and connections

Pin	VV1-N VV1R-N	VV1-A VV1R-A	VV1-B VV1R-B	VV1-C VV1R-C
1				
2		Out +	Out +	RS485 A
3	Out o.c. (Hz)	Out -	Out -	RS485 B
4	Gnd	Gnd	Gnd	Gnd
5	Vdc(10÷16V)	Vdc(10÷28V)	Vdc(10÷28V)	Vdc(10÷28V)
6*	+12V Heater	+12V Heater	+12V Heater	+12V Heater
7*	Gnd Heater	Gnd Heater	Gnd Heater	Gnd Heater

Heated version only

300 mm

R 125 mm

40 mm

Connector

Order code

Sensor					
	First Class Wind Sensor		VV1		
	First Class Heated Wind Sensor		VV1R		
Output	0÷2Vdc		A		
	4÷20mA		B		
	RS485 / Modbus		C		
	Frequency 0÷150Hz (50 Ohm) or 0÷300Hz		N		
Accessories	CS05 – Cable 5m sensor-datalogger			05	
	CS10 – Cable 10m sensor-datalogger			10	
	CSxx – Cable xx* m length, sensor-datalogger – to be specified at order			xx	
	SSU - Support L = 700-750mm for fixing sensor ø40mm and clamping jaw to poles ø max 60mm				SSU

specify the length for no standard measures — example of order code — **VV1 N 10 SSU**