

Anemometer Windspeed (Vector) A100LM/PC3

Opto-electronic wind speed transmitter



Description

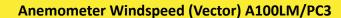
- Opto-electronic wind speed transmitter
- Classified according to IEC standard
- "Low Power", high frequency output signal
- Range 0.2 ... 75 m/s
- Resolution < 0.5 m/s
- Low power, pulse output only
- Consumes 1 mA while operating from the logger's battery supply.

Measurement principle

The low-inertia 3-cup rotor is set into rotation by the wind. The wheel is scanned optoelectronically and the measuring value is available at the output as a digital signal.

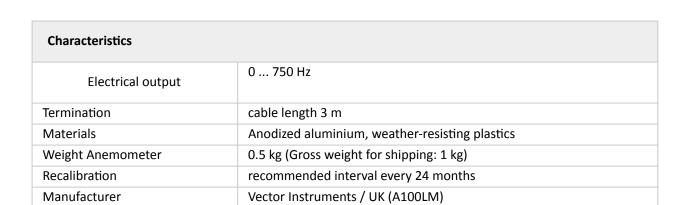
Specifications

Measurement range	0 75 m/s		
Accuracy	± 0.2 m/s (<10 m/s); ± 2% of reading (> 10m/s)		
Resolution	0.05 m/s		
Non-Linearity	0.4 % full-range output frequency (correction curve supplied)		
Starting wind speed	0.2 m/s		
Survival wind speed	max. 75 m/s		
Distance constant	2.3 m ± 10 %		
Ambient temperature	-30 +70 °C		
Transducer	Interruption of optical beam		
Operating supply	4.75 28 VDC (max 1.3 mA, average is typically less than 1 mA		

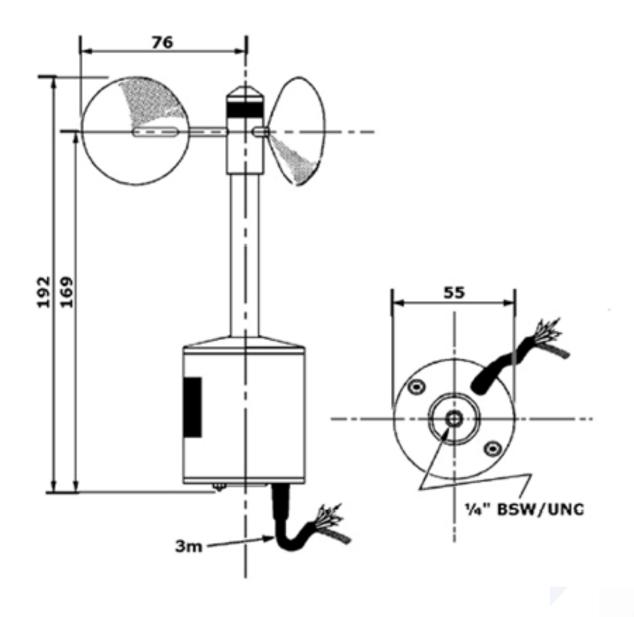




telener 360° Ammonit

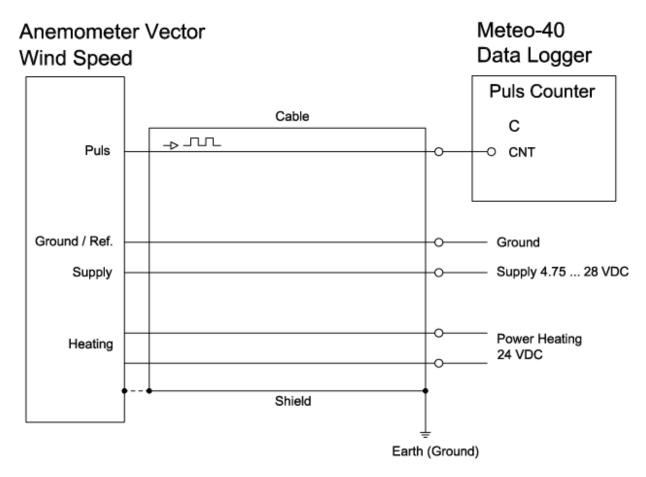


Dimensional drawing





Sensor connection diagram



Sensor	Manufacturer Wire Color	Ammonit Cable Wire Color*	Meteo-40 Counter	Supply Sensor
Wind speed Pulse output	white	white	CNT	
Supply	red	red		4.75 28 VDC, 1 mA typ.
Ground	blue, yellow	black		GND
Heating	brown	orange, orange		24 V / 6 W, 250 mA
Heating	violet	violet, violet		

^{*} with Junction box

Cable type

without heating wires: $LiY(C)Y 3 \times 0.25 \text{ mm}^2$ with heating wires: $LiY(C)Y 7 \times 0.25 \text{ mm}^2$