

Anemometer Windspeed (Vector) A100LM/PC3

S14100



Anemometer Windspeed (Vector) A100LM/PC3

Order number	Availability
S14100	On request

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

Anemometer Windspeed (Vector) A100LM/PC3

General Information

Order Number S14100

Measurement

Measurement Range 0 ... 75 m/s

Accuracy ± 0.2 m/s (<10 m/s); $\pm 2\%$ 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 $\pm 10\%$

Ambient Temperature -30 ... +70 °C

Transducer

Type Interruption of optical beam

Operating Supply 4.75 ... 28 VDC (max 1.3 mA, average is typically less than 1 mA)

Electrical Output 0 ... 750 Hz

Connection

Termination cable length 3 m

Physical

Materials Anodized aluminium, weather-resisting plastics

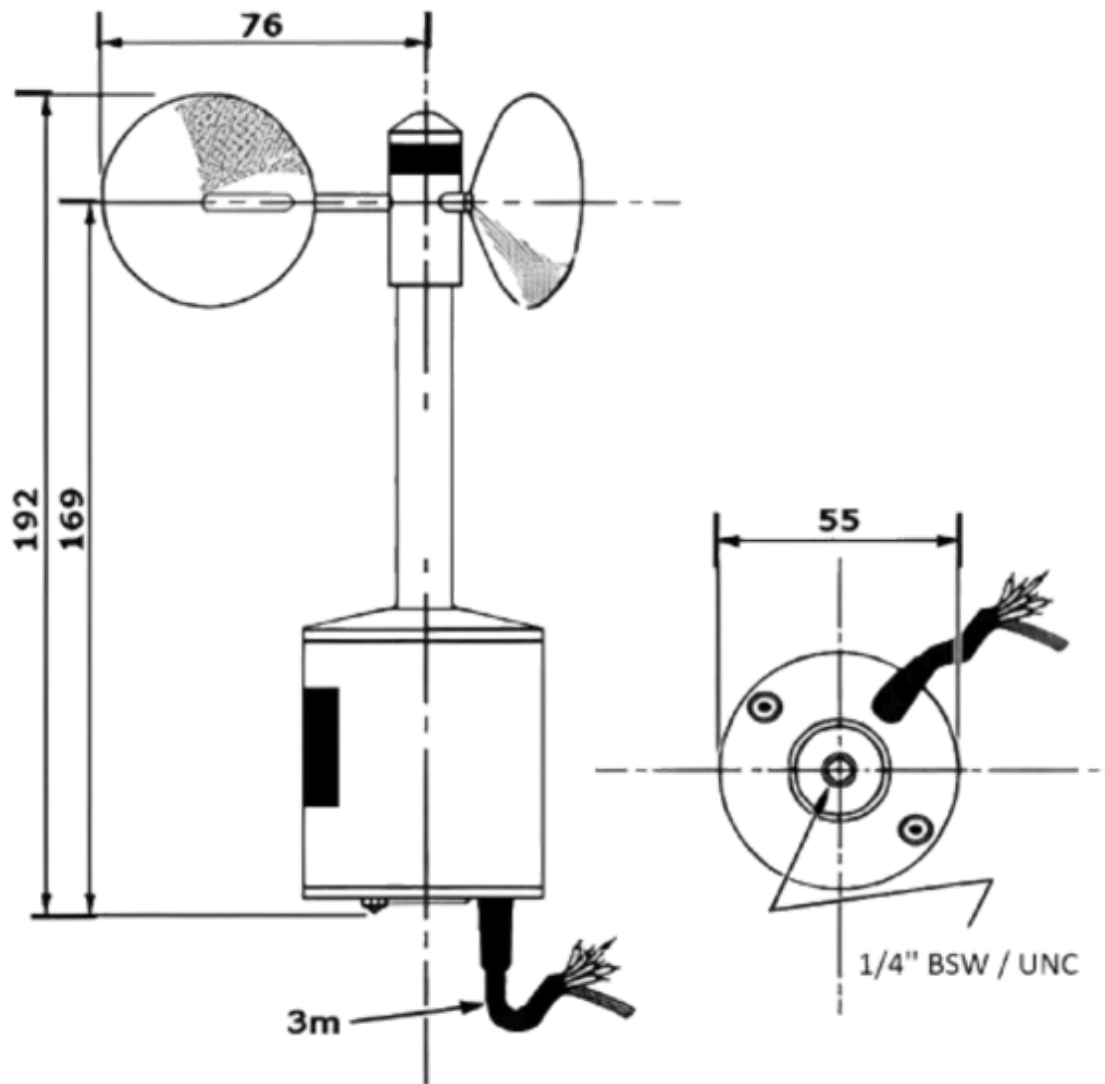
Weight (Anemometer) 0.5 kg (Gross weight for shipping: 1 kg)

Service

Recalibration recommended interval every 24 months

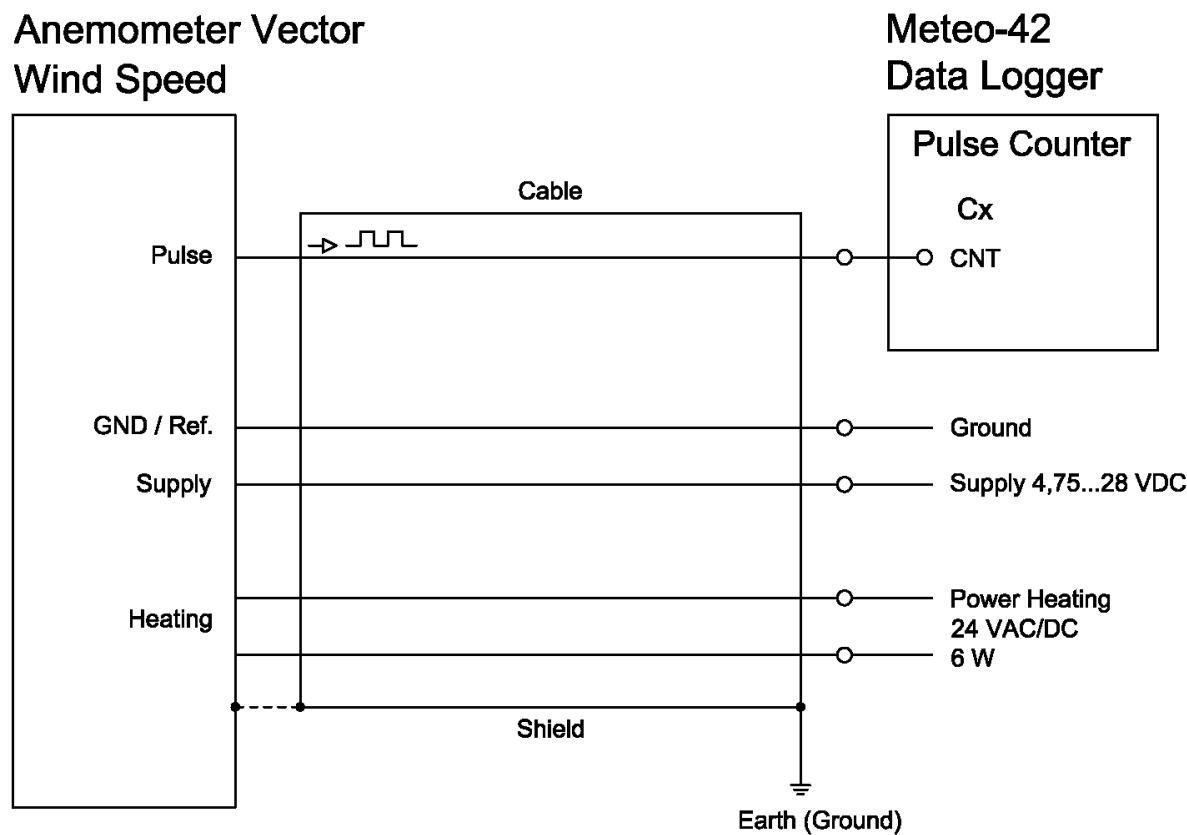
Manufacturer Vector Instruments / UK (A100LM)

Dimensional drawing



Sensor connection diagram

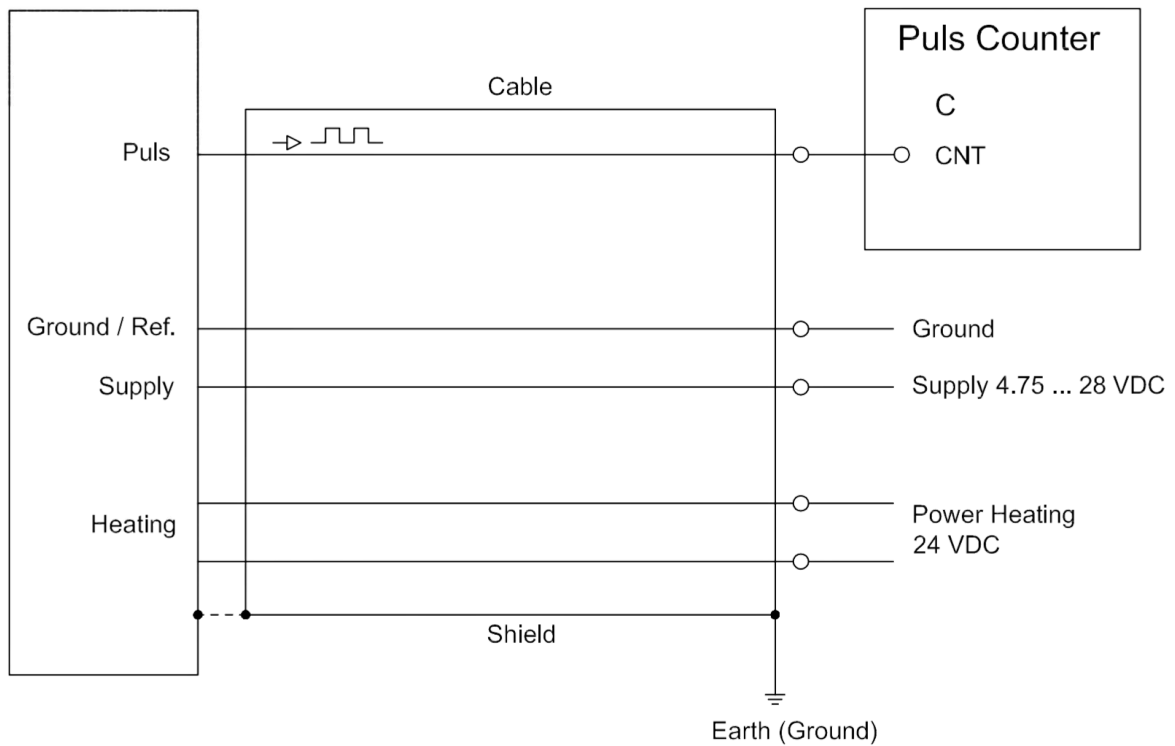
Sensor connection diagram to Ammonit Meteo-42 Data Logger



Sensor connection diagram to Ammonit Meteo-40 Data Logger

Anemometer Vector Wind Speed

Meteo-40 Data Logger



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: LiYCY 3 x 0.25 mm²

Cable type with heating wires: LiYCY 7 x 0.25 mm²