

# Anemometer Vaisala WAA252 with heated cup

Fully heated anemometer and wind vane



## Description

- Non-freezing, all-weather wind set for arctic conditions
- Fully heated anemometer and wind vane (heating in cups and vanes, sensor bodies and bearings prevent snow build-up and ice formation)
- High performance, accurate wind speed and wind direction measurement
- Low measurement starting threshold
- Conical anemometer cups provide excellent linearity

## Specifications

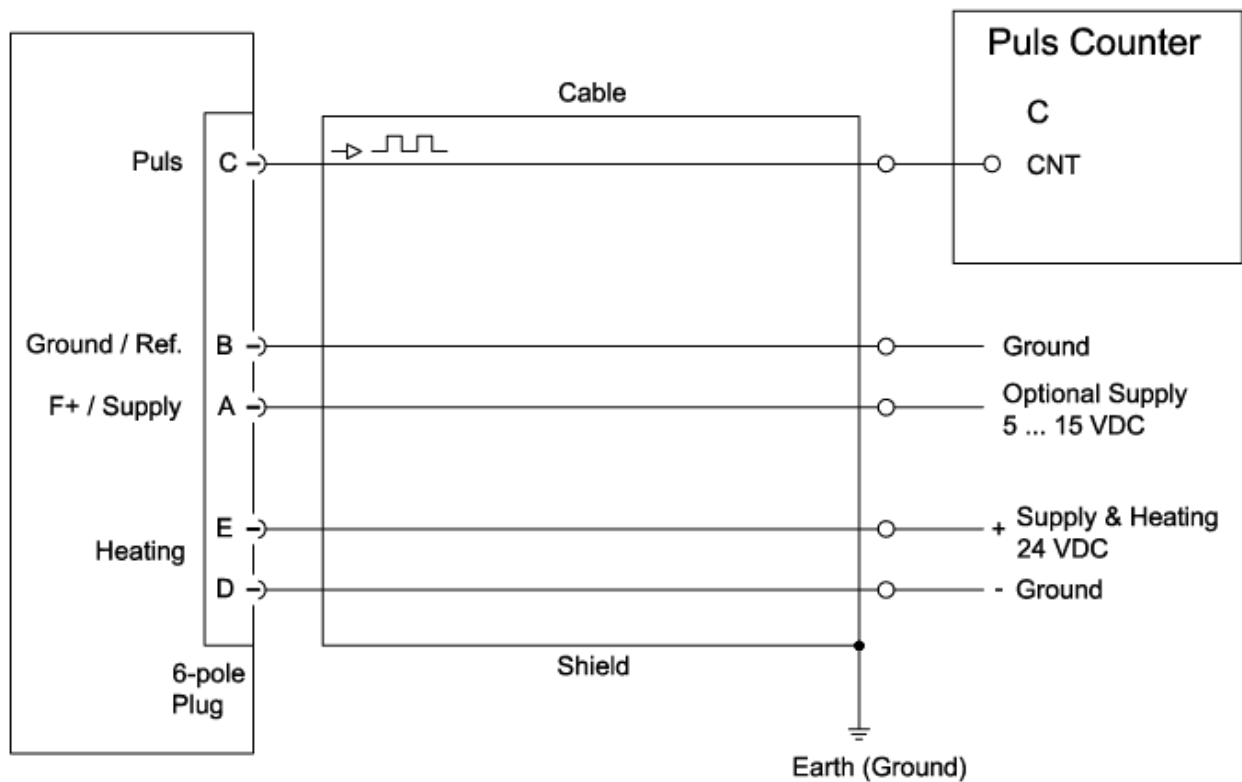
Characteristic	Description / Value
Measurement range	0.4 ... 75 m/s
Starting threshold	< 0.5 m/s
Distance constant	2.7 m
Transducer output	0 ... 750 Hz square wave
Transfer function	$U_f = 0.24 + 0.0979 \times R$
Accuracy with characteristic	$\pm 17$ m/s
Accuracy with transfer function $UF 0.0.1 \times R$	-0.3 / 1.0 m/s
Input power	24 VDC $\pm$ 10%, 3.2 A max.
Typ. power consumption	72 W below + 2°C 1 W above + 6°C
Optimal xducer i/p power (Uxdr)	4.8 - 15.3 VDC, 11 mA typ.
Transducer output high level (with lout < +5 mA)	> 11 V (or > Uxdr - 1.5 V)
Transducer output high level (with lout < -5 mA)	< 1.5 V
Output power for wind xmitters	13 $\pm$ 1 VDC, 75 mA max.

Characteristic	Description / Value
Electrical connections	MIL-C-26484 type (6-pin plug, Vaisala)
Operating temperature	-55 ... +55 °C (Storage: -60 ... +70°C)
Material	Housing: AlMgSi; black & gray anodised Cups: PC reinforced with glass fibre
Dimensions / Weight	269 x 90 mm / 800 g
Manufacturer	Vaisala

## Sensor connection diagram

### Anemometer WAA252 Wind Speed

### Meteo-40 Data Logger



Sensor	Plug Pin No.	Ammonit Cable Wire Color*	Meteo-40 Counter	Supply Sensor
Wind speed Pulse output	C	white	CNT	
Supply	A	red		5 ... 15 VDC, 10 mA typ.
Ground	B	black		GND
Heating + Supply	E	orange, orange		24 VDC ±10%, 3.2 A max.
Heating + Supply	D	violet, violet		Main Ground

Cable type with heating wires: LiYC 7 x 0.25 mm<sup>2</sup>