WAA252
Heated Anemometer

- Non-freezing all-weather sensor
- Lightweight cups with integral heaters
- Non-contact heating power transmission
- Low starting threshold
- Excellent linearity even at low wind speeds
- Fast response; distance constant only 2.7 m


A single 24 VDC ( 3.5 A ) power supply is able to feed the whole device, including the transducer. The WAA252 can even deliver an isolated 12V excitation to a separate wind transmitter, if needed. Thus one power supply is enough for the whole sensor system.
Optionally it is possible to take the transducer power from an external device such as the WT521 or WAT12 wind transmitter. This guarantees an uninterrupted transducer supply, independent of the heating power. The optochopper type transducer consumes only some 10 mA from a $5 \ldots 15 \mathrm{~V}$ excitation.
The WAA252 can be mounted on Vaisala's regular WAC151 crossarm and its output interface is compatible with that of the regular WAA151 anemometer. Therefore, upgrada-tion to a heated-cup system is easy - just a minimal wiring alteration is needed in the crossarm's junction box.
Wind tunnel tests per ASTM method D5096-90 have been conducted on the WAA252 in order to define its aerodynamical behaviour.
The WAA252's power inputs and signal outputs are well protected against line transients and interference. The device itself emits no inacceptable electro-magnetic noise to the signal cables or the atmosphere.

## TECHNICAL DATA



