

CHAPTER 2

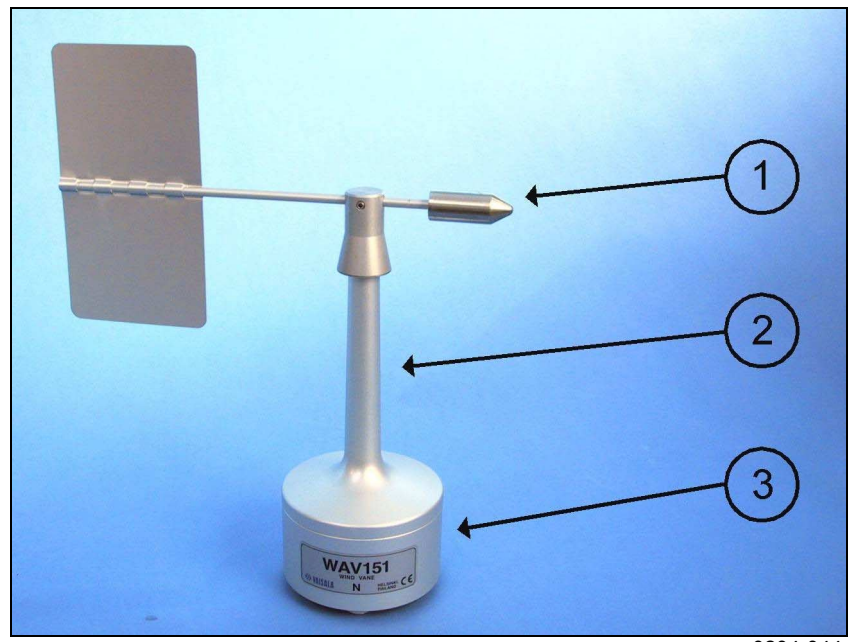
PRODUCT OVERVIEW

This chapter introduces the WAV151 Wind Vane features and advantages.

Introduction to WAV151 Wind Vane

The WAV151 Wind Vane is a counter-balanced, low-threshold optoelectronic wind vane. Infrared LEDs and phototransistors are mounted on six orbits on each side of a 6-bit GRAY-coded disc. Rotated by the vane, the disc creates changes in the code received by the phototransistors. The code is changed in steps of 5.6°, one bit at a time to eliminate any ambiguities in the coding.

A heating element in the shaft tunnel keeps the temperature of the bearings above the freezing level in cold climates. Nominally, it provides 10 W of heating power. It is recommended to use a thermostat switch in the sensor cross arm for switching the heating power on below +4 °C.



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Figure 1 WAV151 Wind Vane

The following numbers refer to Figure 1 above:

- 1 = Vane assembly
- 2 = Sensor shaft
- 3 = Lower body