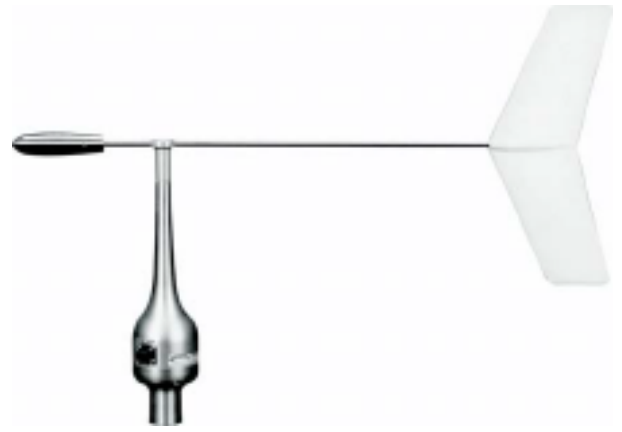


WEATHER

Micro Response Wind Vane

Model 2020



Overview

The Model 2020 Wind Vane is a highly reliable, low threshold wind direction sensor. It responds to winds as low as 0.5 mph. The machined aluminum body is aerodynamically shaped to combat sensor-induced turbulence. A labyrinth beneath the vane assembly prevents water and dust particles from reaching the sealed bearings at the top of the shaft. The reinforced, lightweight foam tail has a butyrate skin and a stainless steel counterweight.

Features

As the vane turns, it rotates a stainless steel shaft held in place with instrument-grade bearings. A waterproof conductive plastic potentiometer is coupled to the base of the shaft. This potentiometer has excellent linearity. Very low torque (0.15 inch ounces) is required to move the wiper. The use of a single wiper doubles the life expectancy of the potentiometer compared to dual-wiper potentiometers. Electronic switching inside the signal conditioning module provides an output range of 0° to 360°.

Mounting

The Model 2023 cross arm is recommended for mounting the micro response vane in conjunction with the micro response anemometer. A mast adapter is available for mounting either sensor alone on a 1-inch 25 mm O.D. mast. Fixed keying of the sensor bodies makes orientation necessary one time only.

Ordering Information

Part Number	Description
2020	Micro Response Wind Vane
2023	Crossarm for mounting 2 micro response wind sensors to 1" (25 mm) mast
20201	Sensor Heater Assembly, 115 VAC
20201-A	Sensor Heater Assembly, 230 VAC
20206	2020 Cable (50 ft)
20231	Mast adapter to mount 1 micro response wind sensor to a 1" (25 mm) mast
10681	Thermostat Control for Sensor Heater
T600503	Heater Cable, 3-conductor, 20 AWG
T802000	Tail Vane
T800301	Counterweight
T800801-01	Vane Hub
T170522	Pot/Shaft Assembly
M488140	2020 Spare Parts Kit

Specifications

Parameter	Specification
Sensor Type	counter-balanced tail
Transducer	potentiometer, 5000 Ω, single wiper
Excitation	5 V DC, 1 mA
Range	0 – 360°
Threshold	0.5 mph (0.2 m/s)
Potentiometer Linearity	0.5%
Accuracy	±2°, 5° deadband at 0°
Resolution	<1.0°
Delay Distance	3.5 ft (1.1 m)
Damping Ratio	0.4
Bearings	sealed dry stainless steel bearings w/synthetic lubricant
Operating Temperature	-40°C to +60°C
Turning Radius	18" (457 mm)
Mounting	direct to crossarm or w/adapter to 1" (25 mm) O.D. mast

Dimensions & Weights

2020 Body Dimensions	43 cm x 53 cm x 6.4 cm (17" H x 21" W x 2.5" D)
2020 Body Weight	1.1 kg (2.5 lb)
20201 Dimensions	3.8 cm x 6.7 cm (1.5" x 2.64")
20201 Weight	0.4 kg (1 lb)
2020 Shipping Weight	3.2 kg (7 lb)

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Product specifications may be subject to change, and specifications listed here are not binding. Confirm current specifications at time of order.