



020C-L

Wind Direction Sensor



Provides Research-Grade Accuracy and Precision

Overview

The 020C, manufactured by Met One, measures wind direction with research-grade accuracy and precision. The 020C is commonly used with the WMS100 for wind-farm power

performance measurements. The 020C is especially suited to your applications that require a low starting threshold, a high damping ratio, or a short delay distance.

Detailed Description

The lightweight, airfoil vane is directly coupled to a single precision microtorque potentiometer. The built-in electronics provide a voltage source for the potentiometer and amplifies the output signal for transmission over long cable lengths.

The vane assembly is easily installed or replaced without requiring recalibration. All sensor components are constructed with stainless steel and anodized aluminum.

Specifications

Sensor	Airfoil vane
Measurement Description	Wind direction
Measurement	Potentiometer (half bridge)
Electrical Range	0° to 357°
Mechanical Range	0° to 360°
Measurement Threshold	0.5 mph
Measurement Linearity	± 0.5% of full scale
Accuracy	±3°
Damping Ratio	0.4
Delay Distance	< 91 cm (3 ft)

Operating Temperature Range	-50° to +85°C (-58° to +185°F)
Output	0 to 5 Vdc for 0 to 360° (0 to 2.5 Vdc optional)
Output Impedance	100 Ω maximum
Finish	Anodized aluminum
Maximum Cable Length	91.44 m (300 ft)
Weight	0.68 kg (1.5 lb)

Power Requirements

Sensor Source	12 Vdc
Sensor Load	10 mA

Heater Source

12 Vdc

Heater Load

350 mA

For comprehensive details, visit: www.campbellsci.com/020c 



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