



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

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For comprehensive details, visit: [www.campbellsci.com/020c](http://www.campbellsci.com/020c) 



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