

METEOROLOGICAL INSTRUMENTS

**MODEL 05603
SENSOR INTERFACE CIRCUIT**

INSTRUCTIONS

P/N 05603-90



WARRANTY AND ASSISTANCE

R.M. YOUNG PRODUCTS are warranted by **CAMPBELL SCIENTIFIC (CANADA) CORP.** ("CSC") to be free from defects in materials and workmanship under normal use and service for **twelve (12) months** from date of shipment unless specified otherwise. CSC's obligation under this warranty is limited to repairing or replacing (at CSC's option) defective products. The customer shall assume all costs of removing, reinstalling, and shipping defective products to CSC. CSC will return such products by surface carrier prepaid. This warranty shall not apply to any CSC products which have been subjected to modification, misuse, neglect, accidents of nature, or shipping damage. This warranty is in lieu of all other warranties, expressed or implied, including warranties of merchantability or fitness for a particular purpose. CSC is not liable for special, indirect, incidental, or consequential damages.

Products may not be returned without prior authorization. To obtain a Return Merchandise Authorization (RMA), contact **CAMPBELL SCIENTIFIC (CANADA) CORP.**, at (780) 454-2505. An RMA number will be issued in order to facilitate Repair Personnel in identifying an instrument upon arrival. Please write this number clearly on the outside of the shipping container. Include description of symptoms and all pertinent details.

CAMPBELL SCIENTIFIC (CANADA) CORP. does not accept collect calls.

Non-warranty products returned for repair should be accompanied by a purchase order to cover repair costs.



CAMPBELL SCIENTIFIC
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MODEL 05603B WIND SENSOR INTERFACE

INSTRUCTION SHEET 05603B-90
REV 12-96

INTRODUCTION

The Wind Sensor Interface provides calibrated analog DC voltage signals for wind speed and wind direction. The unit consists of a circuit board assembly in a weather resistant junction box. All cable connections are made in the junction box. See wiring diagram below.

IMPORTANT!

The Wind Sensor Interface provides a calibrated voltage output signal for wind speed and wind direction. Externally connected devices should be reviewed for compatibility and correct signal scaling.

Repairs should be attempted only by qualified service personnel.

INSTALLATION

The Wind Sensor Interface is provided with a U-Bolt for mounting on the mast near the wind sensor.

WARRANTY

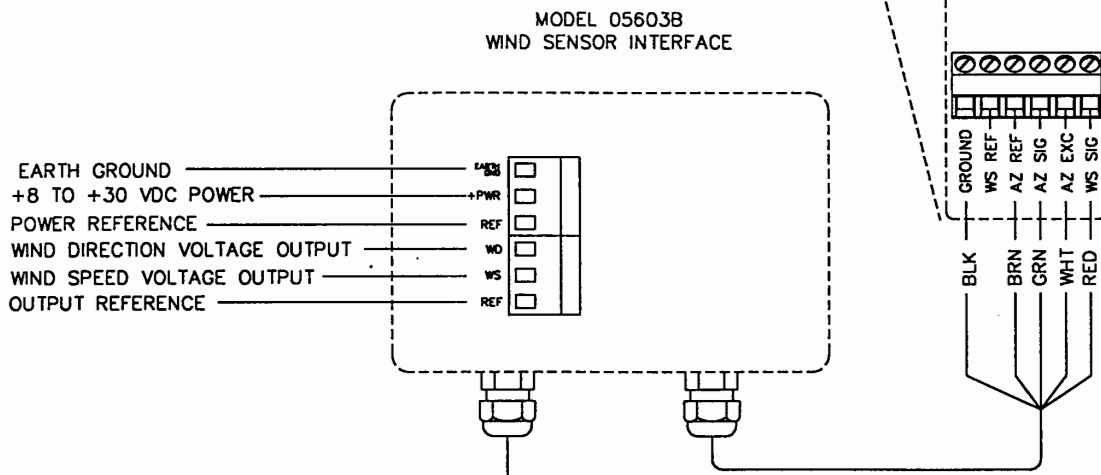
This product is warranted to be free of defects in materials and construction for a period of 12 months from date of initial purchase. Liability is limited to repair or replacement of defective item. A copy of the warranty policy may be obtained from R. M. Young Company.

SPECIFICATIONS

Power Requirement:	8-30 VDC (5 mA @ 12 VDC)
Temperature Range:	-40 to 50°C (-40 to 122°F)
Inputs:	YOUNG Wind Monitor series of sensors
Wind Speed	AC sine wave, Frequency proportional to wind speed. 3 pulses per revolution. Input sensitivity nom. 40 mV p-p
Wind Direction	Analog voltage from azimuth potentiometer. Excitation is supplied from interface circuit to potentiometer.
Outputs:	
Wind Speed	0 to 1.00 VDC full scale (see below) 0 to 5.00 VDC optional Circuit time constant 0.2 second
Wind Direction	0 to 1.00 VDC for 0 to 360° 0 to 5.00 VDC optional
Overall accuracy:	± 1% of full scale over temperature and supply voltage range
Dimensions:	33 mm (1.3 in) W x 55 mm (2.2 in) H x 32 mm (1.2 in) D
Mounting:	U-bolt for vertical pipe 25-50mm diameter

CIRCUIT CALIBRATION

SENSOR	W. S. SCALE	SUFFIX
STD	0 TO 100 mph	(P)
AQ	0 TO 50 m/s	(M)
RE	0 TO 100 knots	(N)
	0 TO 200 km/hr	(K)
		0 TO 360° OTHER:



NOTE: CABLE GOES THROUGH BUSHING
IN USE. INDIVIDUAL CONDUCTORS
SHOWN FOR CLARITY



1. ALL RESISTORS ARE 1/4-WATT, METAL-FILM, 1% UNLESS OTHERWISE NOTED.
2. ALL CAPACITORS ARE IN μF UNLESS OTHERWISE NOTED.
3. CAPACITORS SHOWN AS $\mu F/WV$

