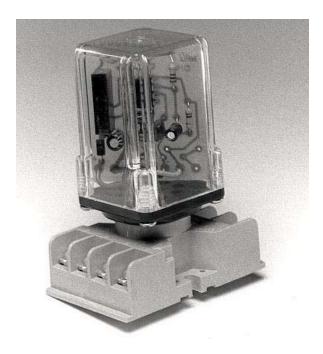
SPECIFICATIONS

#SI5100 Wind Speed Interface Module

FEATURES

- Allows use of #40 anemometer signal with analog devices
- DIN-rail mountable octal socket



The wind speed interface module is used for interfacing a NRG #40 Maximum anemometer to an analog device such as a computer, meter, or recorder. The module output signal is a negative ground voltage normally factory set at 0 to 5 V DC at wind speeds ranging from 0 to 100 MPH. Other ranges are available up to 6 V DC.

Power is supplied by any 12 V DC source or an optional AC adapter for use with 120 V AC.

Packaged in a plastic case with an octal plug. DIN-rail mountable octal socket with screw terminals is included.

SPECIFICATIONS

Description	Sensor type	 anemometer interface, voltage output Converts the low level AC sine-wave signal from the sensor to a DC voltage. 	
	Applications	 wind turbine control process control environmental monitoring meteorological studies 	
	Sensor range	0 m/s to 44.7 m/s (0 mph to 100 mph)	
	Sensor compatibility	NRG #40 Maximum Anemometerconsult NRG for other sensors	
Input signal	Signal type (sensor output)	low level AC sine wave compatible with NRG #40 Maximum Anemometer	
	Signal range (sensor output)	 0 Hz to 58 Hz, equivalent to 0 m/s to 44.7 m/s (0 mph to 100 mph) 80 mV peak-to-peak minimum input signal 	
Output signal	Signal type	DC voltage proportional to wind speed	



SPECIFICATIONS

Transfer function	scale factor = 0.086 V per Hzm/s = 8.94 x Vout		
	• mph = 20 x Vout		
Accuracy	+/- 0.447 m/s (+/- 1 mph)		
Electrical time constant	Typical response time 0.5 seconds		
Recommended load resistance	200 Ω minimum (25 mA max output current)		
Output signal range 0 V DC to 5 V DC for 0 m/		7 m/s (0 mph to 100 mph)	
Supply voltage	12 V DC to 15 V DC		
Supply current	8 mA to 13 mA (0.1 W to 0.2 W), no load on output		
Mounting	mating socket mounts to 35mm (type O) DIN rail or with screws to any flat surface		
Tools required	#1 Phillips (+) or flat blade (-) screwdriver for terminals		
Other accessories	NRG #40 Maximum Anemometer, Item No. 1899		
Wiring	Octal Socket Terminal	Connection	
	#1	Windspeed Input (+)	
	#2	Windspeed Input (-)	
	#3	DC Voltage Supply (+)	
	#4	DC Voltage Supply (-)	
	#5	Output Signal (-)	
	#6	Output Signal (+)	
	#7	no connection	
	#8	no connection	
Operating temperature range	e -40 °C to 70 °C (-40 °F to 150 °F)		
	octal plug, mating socket with screw terminals included		
Dimensions	 module: 50 mm x 50 mm x 69 mm (1.4 inches x 1.4 inches x 2.7 inches), including plug in socket: 41 mm x 56 mm x 77 mm (1.6 inches x 2.2 inches x 3.0 inches) 		
Enclosure	plastic housing with octal plug base		
Terminals	octal plug, mating socket with screw terminals included		
Shipping weight (pounds)	0.26		
Shipping volume (cubic feet)	0.022		
Item number	2062		
	Accuracy Electrical time constant Recommended load resistance Output signal range Supply voltage Supply current Mounting Tools required Other accessories Wiring Operating temperature range Operating humidity range Connections Weight Dimensions Enclosure Terminals Shipping weight (pounds) Shipping volume (cubic feet)	Transfer function m/s = 8.94 x Vout mph = 20 x Vout - 0.447 m/s (+/- 1 mph) Typical response time 0.5 second Recommended load resistance 200 Ω minimum (25 mA max out; 200 Ω max out; 200 Ω minimum (25 mA max out; 200 Ω minimum (25 mA max out; 200 Ω max out; 200 Ω minimum (25 mA max out; 200 Ω minimum (25 mA max out; 200 Ω max out; 200 Ω minimum (25 mA max out; 200 Ω max ou	

