SPECIFICATIONS

892 Speed Amp

FEATURES

- Provides high level frequency signal from NRG #40 anemometer
- Can provide TTL and CMOS logic compatible signal
- Very low power consumption



The 892 Speed Amp interface converts the AC sine wave signal produced by the NRG #40 anemometer (or any sensor with a compatible output, such as the IceFree heated anemometer) to a high level square wave signal at the same frequency. The high level signal is compatible with many data acquisition systems with frequency input capabilities.

The 892 Speed Amp's very low power consumption makes it ideal for use with battery powered data acquisition systems.

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Description	Sensor type	 anemometer interface, signal amplifier converts the low level AC sine-wave signal from the sensor to a high level square wave signal at the same frequency. 		
	Applications	 wind turbine control process control environmental monitoring meteorological studies 		
	Sensor compatibility	NRG #40 anemometerIceFree heated anemometers		
Input signal	Signal type (sensor output)	low level AC sine wave		
	Signal range (sensor output)	0 Hz to 200 Hz		
Output signal	Signal type	 high level square wave push-pull (no external pull up resistor required) TTL / CMOS compatible (depending on supply voltage) 		
	Transfer function	output signal follows input frequency		



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	Recommended load resistance	1 kO minimum (5 mA load current maximum)
	Output signal range	equal to supply voltage
Power requirements	Supply voltage	 3 V DC to 15 V DC internal power storage capacitor gives approx. 13 seconds run time with power off, when operating from a 5 V pulsed supply and with no load on the output
	Supply current	15 μΑ
Response characteristics	Threshold	80 mV peak-to-peak minimum input signal
Installation	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 anemometer, Item No. 1899
	Wiring	 Pin 1 - anemometer input Pin 2 - anemometer input (supply common) Pin 3 - +5 VDC power @ approx. 15 uA input Pin 4 - supply common Pin 5 - output common (supply common) Pin 7 - frequency output signal (TTL/CMOS compatible)
Environmental	Operating temperature range	-40 °C to 70 °C (-40 °F to 150 °F)
	Operating humidity range	0 % to 95 % RH (non condensing)
Physical	Connections	octal plug, mating socket with screw terminals included
	Weight	75 g (0.17 pound)
	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)
Materials	Enclosure	plastic housing with octal plug base
	Terminals	octal plug, mating socket with screw terminals included
Shipping	Shipping weight (pounds)	0.26
	Shipping volume (cubic feet)	0.022

NRG