

1275 Danner Dr Tel:330-562-7070 Aurora, OH 44202 Fax:330-562-1999 www.networktechinc.com

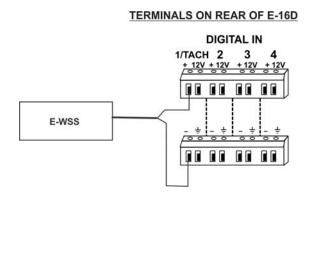
E-WSS WIND SPEED SENSOR WIRING INSTRUCTION

The E-WSS Wind Speed Sensor is compatible with the E-16D, E-5D, and E-2D Enterprise Environment Monitoring Systems.

Features Include:

- Rugged anemometer
- 3-cup rotor pressed on a stainless steel shaft
- Reed switch and magnet providing one pulse per rotation
- Rotor diameter: 5 inches
- Speed range: ~ 3 mph to 125+ mph (~5 kph to over 200 kph)
- Rugged Delrin body with bronze and Rulon bushings
- Flat aluminum mounting bracket with 2 holes. Designed to be mounted on top of a pole or bracket.
- 100 feet of exterior grade wire

Wiring to the ENVIROMUX systems is illustrated below:



TERMINALS ON E-5D DIGITAL I 1/TACH П П ΓГ E-WSS **TERMINALS ON E-2D** DIGITAL IN OUTPUT 1/TACH 2 5 4 ÷ ÷ + C NC NO + -7

E-WSS

To install and configure the E-WSS to the ENVIROMUX System, go to the Sensors summary page and select "Add Tach Sensor on Digital input 1".

Inter	Internal Sensors						
No.	Description	Туре	Value	Status	Action		
1	Internal Temperature	Temperature	27.3°C	Normal	View Edit		
2	Internal Humidity	Humidity	41%	Normal	View Edit		
3	Battery	Voltage	13.4V	Normal	View Edit		
Sense	ors						
Conn.	Description	Туре	Value	Status	Action		
1	Temperature 1	Temperature Combo	84.0°F	Normal	View Edit Delete		
1	Humidity 1	Humidity Combo	37%	Normal	View Edit Delete		
1	Dew Point Sensor 1	Dew Point	54.7°F	Normal	View Edit Delete		
2	Light Sensor 2	Light	51.7lx	Normal	View Edit Delete		
3	Temperature 3	Temperature	81.8°F	Normal	View Edit Delete		
4	Humidity 4	Humidity	36%	Normal	View Edit Delete		
5	Temperature 5	Temperature Combo	28.2°C	Normal	View Edit Delete		
5	Humidity 5	Humidity Combo	38%	Normal	View Edit Delete		
6	Sensor #6.1	ACLM-V AC Voltage	120.0V	Normal	View Edit Delete		
6	Sensor #6.2	ACLM-V AC Voltage	120.0V	Normal	View Edit Delete		
8	Water Detection Sensor 8	Water	Open	Normal	View Edit Delete		
16	Motion Detector 16	Motion Detector	Closed	Normal	View Edit Delete		
	Wind Speed on E-160	Wind Speed	0.0MPH	Acknowledged	View Edit Delete		



Windspeed on E-16D(Dig.In.1) Configuration (Type: Tach Sensor)

Descriptive name for the sensor Group 1 Select which group the sensor belongs to Min. Level 0.0 Min. supported value for the sensor Max. Level 285.0 Associate Sensor Associate sensor to a customized sensor type Associate Sensor Massociated sensor Associated Sensor Type Wind Speed Type of the associated sensor Associated sensor Associated Sensor Unit MPH Measurement unit for the associated sensor Bassociated Sensor Sensor expected value corresponding to 0 Hz Bassociated Level Sensor expected value corresponding to 255 Hz Sensor expected value corresponding to 255 Hz Min. Non-Critical Threshold 0.0 Max. Non-Critical Threshold below which indicates an non-critical alert condition Max. Kreshold above which indicates an alert condition Max. Critical Threshold 0.0 Max. threshold below which indicates an alert condition Max. Critical Alert Settings The refresh rate at which the sensor view is updated Non-Critical Alert Settings The refresh rate at which the sensor view is updated	Description	Windspeed on E-16D(Dig.I
Select which group the sensor belongs to Min. Level 0.0 Min. supported value for the sensor Max. Level 255.0 Max. supported value for the sensor Associate Sensor Associate sensor to a customized sensor type Associated Sensor Unit MPH Measurement unit for the associated sensor Associated Level 0.00 Sensor expected value corresponding to 0 Hz Min. Non-Critical Threshold 0.0 Min. Arssociated Level 637.5 Sensor expected value corresponding to 255 Hz Min. Non-Critical Threshold 0.0 Min. Arssociated Level 637.5 Sensor expected value corresponding to 255 Hz Min. Non-Critical Threshold 0.0 Min. threshold below which indicates an non-critical alert condition Max. Sociated Level 0.0 Min. Artishold above which indicates an alert condition Max. Associated Threshold 0.0 Min. Artificial Threshold 0.0 Min. Artificial Threshold below which indicates an alert condition Max. Critical Threshold 0.0 Max. threshold above which indicates an alert condition Max. t		
Min. Level 0.0 Mix. Level 255.0 Max. supported value for the sensor Max. supported value for the sensor Associate Sensor Associate sensor to a customized sensor type Associated Sensor Type Wind Speed Type of the associated sensor Type of the associated sensor Associated Sensor Unit MPH Measurement unit for the associated sensor Source sensor expected value corresponding to 0 Hz Source Sensor expected value corresponding to 255 Hz Sensor expected value corresponding to 255 Hz Min. Non-Critical Threshold 0.0 Max. Associated Level 637.5 Sensor expected value corresponding to 255 Hz Min. Non-Critical Threshold 0.0 Max. Non-Critical Threshold 0.0 Max. Associated Level 0.0 Max. Non-Critical Threshold 0.0 Max. Non-Critical Threshold below which indicates an non-critical alert condition Max. Critical Threshold 0.0 Max. Critical Threshold 0.0 Max. threshold below which indicates an alert condition Max. Critical Alert Settings The refresh rate at which the sensor view is updated Non-Critical Alert Settings Ther	Group	1 -
Min. supported value for the sensor Max. Level 285.0 Max. supported value for the sensor Associate Sensor Associate sensor to a customized sensor type Associated Sensor Type Wind Speed Type of the associated sensor Associated Sensor Unit MPH Measurement unit for the associated sensor SNMP Associated Type ID 22767 TD value for SNMP type of associated sensor Min. Associated Level 0.00 Sensor expected value corresponding to 0 Hz Max. Associated Level 637.5 Sensor expected value corresponding to 255 Hz Min. Non-Critical Threshold 0.0 Max. threshold below which indicates an non-critical alert condition Max. Non-Critical Threshold 0.0 Min. threshold below which indicates an non-critical alert condition Max. Critical Threshold 0.0 Min. threshold above which indicates an alert condition Max. Critical Threshold 0.0 Min. threshold below which indicates an alert condition Max. Critical Threshold 80.0 Min. threshold above which indicates an alert condition Max. Critical Threshold 80.0 Min. threshold above which indicates an alert condition Max. Threshold above which indicates an alert condition Max. threshold above which indicates an alert condition		Select which group the sensor belongs to
Max. Level 285.0 Max. supported value for the sensor Associate Sensor Associate Sensor Associate sensor to a customized sensor type Associated Sensor Type Wind Speed Type of the associated sensor Type of the associated sensor Associated Sensor Unit MPH Measurement unit for the associated sensor Sensor expected value corresponding to 0 Hz Sensor expected value corresponding to 255 Hz Sensor expected value corresponding to 255 Hz Min. Non-Critical Threshold 0.0 Max. Non-Critical Threshold 0.0 Min. Critical Threshold 0.0 Min. Critical Threshold 0.0 Max. Critical Threshold 80.0 Max. Critical Alert Settings The refresh rate at which the sensor view is updated Non-Critical Alert Settings Critical Alert Settings	Min. Level	0.0
Max. Supported value for the sensor Associate Sensor Associate Sensor Type Wind Speed Type of the associated sensor Associated Sensor Unit MPH Measurement unit for the associated sensor Associated Vpe ID 32767 D value for SNMP type of associated sensor Min. Associated Level 0.00 Sensor expected value corresponding to 0 Hz Max. Associated Level 637.5 Sensor expected value corresponding to 255 Hz Min. Non-Critical Threshold 0.0 Max. Non-Critical Threshold Max. threshold below which indicates an non-critical alert condition Min. Critical Threshold 80.0 Max. Critical Threshold 80.0 Max. Critical Alert Settings Critical Alert Settings		Min. supported value for the sensor
Associate Sensor Image: Associate Sensor to a customized sensor type Associated Sensor Type Wind Speed Type of the associated sensor Type of the associated sensor Associated Sensor Unit MPH Measurement unit for the associated sensor SNMP Associated Type ID 32767 ID value for SNMP type of associated sensor Min. Associated Level 0.00 Sensor expected value corresponding to 0 Hz Max. Associated Level 637.5 Sensor expected value corresponding to 255 Hz Min. Non-Critical Threshold 0.0 Min. Non-Critical Threshold 0.0 Max. threshold below which indicates an non-critical alert condition Min. critical Threshold 0.0 Min. threshold below which indicates an alert condition Max. threshold above which indicates an a	Max. Level	255.0
Associate sensor to a customized sensor type Associated Sensor Type Wind Speed Type of the associated sensor Associated Sensor Unit MPH Measurement unit for the associated sensor SNMP Associated Type ID 32767 ID value for SNMP type of associated sensor Min. Associated Level 637.5 Sensor expected value corresponding to 0 Hz Max. Associated Level 637.5 Sensor expected value corresponding to 255 Hz Min. Non-Critical Threshold 0.0 Max. Non-Critical Threshold below which indicates an non-critical alert condition Min. Critical Threshold 0.0 Min. threshold below which indicates an alert condition Max. threshold above which indicates an alert condition Non-Critical Alert Settings <td></td> <td>Max. supported value for the sensor</td>		Max. supported value for the sensor
Type of the associated sensor Associated Sensor Unit MPH Measurement unit for the associated sensor SNMP Associated Type ID 32767 ID value for SNMP type of associated sensor Min. Associated Level 0,00 Sensor expected value corresponding to 0 Hz Max. Associated Level 637.5 Sensor expected value corresponding to 255 Hz Min. Non-Critical Threshold 0.0 Min. threshold below which indicates an non-critical alert condition Max. Non-Critical Threshold 40.0 Max. threshold below which indicates an non-critical alert condition Min. Critical Threshold 0.0 Min. threshold below which indicates an alert condition Max. Critical Threshold 80.0 Max. threshold above which indicates an alert condition Max. Critical Threshold 80.0 Max. threshold above which indicates an alert condition Max. Critical Threshold 80.0 Max. threshold above which indicates an alert condition Max. Critical Alert Settings The refresh rate at which the sensor view is updated INO-Critical Alert Settings ID Data Logging ID	Associate Sensor	
Associated Sensor Unit MPH Measurement unit for the associated sensor SNMP Associated Type ID 32767 ID value for SNMP type of associated sensor Min. Associated Level 0,00 Sensor expected value corresponding to 0 Hz Max. Associated Level 637.5 Sensor expected value corresponding to 255 Hz Min. Non-Critical Threshold 0.0 Min. threshold below which indicates an non-critical alert condition Max. Non-Critical Threshold 40.0 Max. threshold above which indicates an non-critical alert condition Max. Critical Threshold 0.0 Min. threshold above which indicates an alert condition Max. Critical Threshold 80.0 Max. threshold above which indicates an alert condition Max. threshold above which indicates an alert condition Max. threshold above which indicates an alert condition Max. Critical Threshold 80.0 Max. threshold above which indicates an alert condition Max. Threshold below which the sensor view is updated Non-Critical Alert Settings Data Logging	Associated Sensor Type	Wind Speed
NMIN Measurement unit for the associated sensor SNMP Associated Type ID 32767 ID value for SNMP type of associated sensor Divalue for SNMP type of associated sensor Min. Associated Level 0,00 Sensor expected value corresponding to 0 Hz Max. Associated Level 637.5 Sensor expected value corresponding to 255 Hz Min. Non-Critical Threshold 0.0 Min. Non-Critical Threshold 0.0 Max. Non-Critical Threshold 0.0 Min. Critical Threshold 0.0 Min. Critical Threshold 0.0 Max. threshold above which indicates an non-critical alert condition Max. Critical Threshold 0.0 Max. threshold above which indicates an alert condition Max. Critical Alert Settings Critical Alert Settings Data Logging		Type of the associated sensor
SNMP Associated Type ID 32767 ID value for SNMP type of associated sensor Min. Associated Level 0.00 Sensor expected value corresponding to 0 Hz Max. Associated Level 637.5 Sensor expected value corresponding to 255 Hz Min. Non-Critical Threshold 0.0 Min. threshold below which indicates an non-critical alert condition Max. Non-Critical Threshold 0.0 Min. threshold above which indicates an non-critical alert condition Min. Critical Threshold 0.0 Min. threshold below which indicates an alert condition Max. Non-Critical Threshold 0.0 Min. threshold below which indicates an alert condition Min. Critical Threshold 0.0 Min. threshold below which indicates an alert condition Max. Critical Threshold 80.0 Max. threshold above which indicates an alert condition Max. threshold above which indicates an alert condition Max. threshold above which indicates an alert condition Max. threshold above which indicates an alert condition Max. threshold above which indicates an alert condition Max. threshold above which indicates an alert condition Max. threshold above which indicates an alert condition Max. threshold above which indicates an alert condition Max. threshold above which indicates an alert condition Refresh Rate 10 Sec The refresh rate at which the sensor view is updated Data Logging Da	Associated Sensor Unit	MPH
ID value for SNMP type of associated sensor Min. Associated Level 0,00 Sensor expected value corresponding to 0 Hz Max. Associated Level 637.5 Sensor expected value corresponding to 255 Hz Min. Non-Critical Threshold 0.0 Min. threshold below which indicates an non-critical alert condition Max. Non-Critical Threshold 40.0 Max. threshold above which indicates an non-critical alert condition Min. Critical Threshold 0.0 Min. threshold below which indicates an alert condition Max. Critical Threshold 0.0 Min. threshold below which indicates an alert condition Max. Critical Threshold 90.0 Max. threshold above which indicates an alert condition Max. Critical Threshold 90.0 Max. threshold above which indicates an alert condition Refresh Rate 10 Sec • The refresh rate at which the sensor view is updated Non-Critical Alert Settings Critical Alert Settings		Measurement unit for the associated sensor
Min. Associated Level 0.00 Sensor expected value corresponding to 0 Hz Max. Associated Level 637.5 Sensor expected value corresponding to 255 Hz Min. Non-Critical Threshold 0.0 Min. threshold below which indicates an non-critical alert condition Max. Non-Critical Threshold 40.0 Max. threshold above which indicates an non-critical alert condition Min. Critical Threshold 0.0 Min. threshold below which indicates an alert condition Min. Critical Threshold 0.0 Min. threshold below which indicates an alert condition Max. Critical Threshold 80.0 Max. threshold above which indicates an alert condition Referesh Rate 10 Sec ~ The refresh rate at which the sensor view is updated Non-Critical Alert Settings Data Logging	SNMP Associated Type ID	32767
Sensor expected value corresponding to 0 Hz Max. Associated Level 637.5 Sensor expected value corresponding to 255 Hz Min. Non-Critical Threshold 0.0 Min. threshold below which indicates an non-critical alert condition Max. Non-Critical Threshold 40.0 Max. Non-Critical Threshold 0.0 Min. Critical Threshold 0.0 Min. Critical Threshold 0.0 Min. threshold below which indicates an alert condition Max. Critical Threshold 0.0 Max. threshold below which indicates an alert condition Max. Critical Threshold 80.0 Max. threshold above which indicates an alert condition Refresh Rate 10 Sec • The refresh rate at which the sensor view is updated Pota Logging		ID value for SNMP type of associated sensor
Sensor expected value corresponding to 255 Hz Min. Non-Critical Threshold 0.0 Min. threshold below which indicates an non-critical alert condition Max. Non-Critical Threshold 40.0 Max. Non-Critical Threshold 40.0 Min. Critical Threshold 0.0 Min. threshold below which indicates an non-critical alert condition Max. threshold below which indicates an alert condition Max. Critical Threshold 80.0 Max. threshold above which indicates an alert condition Refresh Rate 10 Sec The refresh rate at which the sensor view is updated Non-Critical Alert Settings Image: Critical Alert Settings Data Logging Image: Critical Alert Settings	Min. Associated Level	
Min. threshold below which indicates an non-critical alert condition Max. Non-Critical Threshold 40.0 Max. threshold above which indicates an non-critical alert condition Min. Critical Threshold 0.0 Min. threshold below which indicates an alert condition Max. Critical Threshold 80.0 Max. threshold above which indicates an alert condition Max. threshold above which indicates an alert condition Max. Critical Threshold 80.0 Max. threshold above which indicates an alert condition Max. Critical Threshold 80.0 Max. threshold above which indicates an alert condition Max. Critical Threshold 80.0 Max. threshold above which indicates an alert condition Max. Critical Threshold 80.0 Max. threshold above which indicates an alert condition Max. Critical Alert Settings Data Logging	Max. Associated Level	
Max. threshold above which indicates an non-critical alert condition Min. Critical Threshold 0.0 Min. threshold below which indicates an alert condition Max. Critical Threshold 80.0 Max. threshold above which indicates an alert condition Max. Critical Threshold 80.0 Max. threshold above which indicates an alert condition Max. Threshold above which indicates an alert condition Max. Critical Threshold 80.0 Max. threshold above which indicates an alert condition Max. Threshold	Min. Non-Critical Threshold	
Min. Critical Threshold 0.0 Min. threshold below which indicates an alert condition Max. Critical Threshold 80.0 Max. Critical Threshold Max. threshold above which indicates an alert condition Refresh Rate 10 The refresh rate at which the sensor view is updated Non-Critical Alert Settings Critical Alert Settings	Max. Non-Critical Threshold	40.0
Min. threshold below which indicates an alert condition Max. Critical Threshold 80.0 Max. threshold above which indicates an alert condition Refresh Rate 10 Sec The refresh rate at which the sensor view is updated Non-Critical Alert Settings Critical Alert Settings Data Logging		Max. threshold above which indicates an non-critical alert condition
Max. Critical Threshold 80.0 Max. threshold above which indicates an alert condition Refresh Rate 10 Sec • The refresh rate at which the sensor view is updated	Min. Critical Threshold	0.0
Max. threshold above which indicates an alert condition Refresh Rate 10 Sec • The refresh rate at which the sensor view is updated Non-Critical Alert Settings Critical Alert Settings		Min. threshold below which indicates an alert condition
Refresh Rate 10 The refresh rate at which the sensor view is updated Non-Critical Alert Settings Critical Alert Settings Data Logging	Max. Critical Threshold	80.0
Non-Critical Alert Settings Critical Alert Settings Data Logging		Max. threshold above which indicates an alert condition
Non-Critical Alert Settings Critical Alert Settings Data Logging	Refresh Rate	
Critical Alert Settings		The refresh rate at which the sensor view is updated
Data Logging	Non-Critical Alert Settings	
	Critical Alert Settings	
ave	Data Logging	
	376	
Nert Simulation		

Configuration Example for E-WSS Wind Speed Sensor

Specifications

SENSOR TYPE	3-Cup rotor, Reed switch/magnet provide 1 pulse per rotation.
OUTPUT for D2 Rotor (Shown in photo)	1 pulse per rotation 2.5 mph (4 km/h) per Hz
ROTOR DIAMETER	approx. 5 in (~125 mm)
SPEED RANGE	approx. 3 mph to 125+ mph (~5 km/h to over 200 km/h)
MOUNTING BRACKET	Supplied with an aluminum mounting bracket with 2 holes for screws. Designed to be mounted on top of a pole or bracket.
WIRE	Standard length is 100 feet (30m) custom lengths available upon request - tested OK to over 1,500 feet The wire is provided stripped and un-terminated
DISPLAY	None provided with the sensor only Formula for converting pulses to speed: 2.5 mph per Hz (2.5 mph per pulse/second)
POWER	No power required