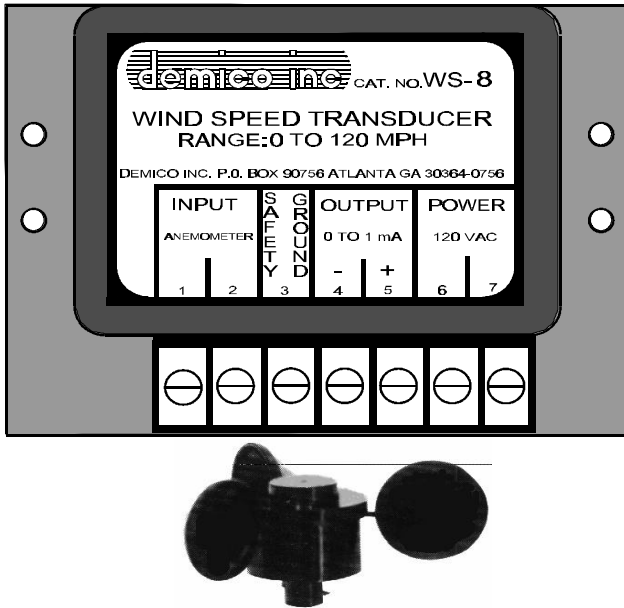


WIND SPEED TRANSDUCER



- ◆ 0 TO 120 MPH
- ◆ LINEAR ANALOG OUTPUT
- ◆ TWO PERCENT ACCURACY
- ◆ STURDY ABS ANEMOMETER
- ◆ RUBY BEARINGS
- ◆ AC OR DC POWER SUPPLIES
- ◆ SIMPLE TO USE
- ◆ EASY TO MOUNT.

APPLICATIONS

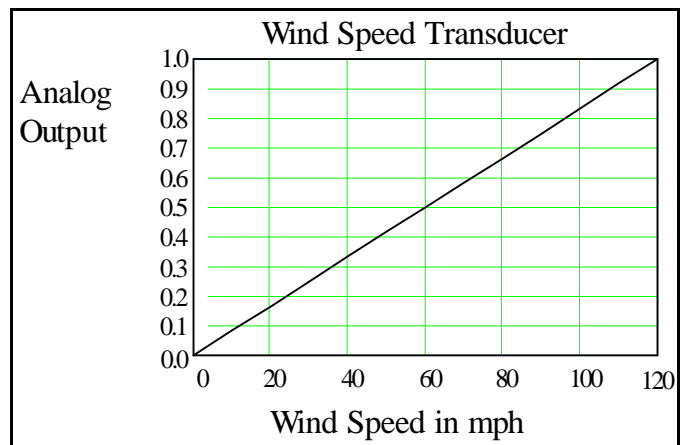
REMOTELY MONITOR WIND SPEED AT SUBSTATIONS, RTU'S, EQUIPMENT ENCLOSURES, TRANSMISSION LINES, BUILDINGS, ETC. USE REAL TIME WEATHER DATA TO CORRELATE STORM DAMAGE, ASSESS MECHANICAL AND STRUCTURAL STRENGTH.

Monitoring environmental conditions is one of the most important variables to monitor in a Generation, Transmission, or Distribution system. Correlating Peak Demands to weather data builds a knowledge base of data for your locality, to enable your system to respond to environmental conditions quickly. Correlating storm damage to Wind Speed enables you to assess and improve mechanical and structural methods to minimize future storm damage.

The Demico Wind Speed Transducer (WS) is designed to easily and accurately monitor various wind speeds throughout your Generation, Transmission, and Distribution system. The wind speed measuring system has a low profile, flush

mounted interface enclosure which can be mounted in an RTU cabinet, or substation house. A sturdy ABS anemometer with ruby bearings is included which senses slight breezes as well as hurricane gales up to 120 mph.

The WS series of transducers are available with seven AC and DC power supply ranges. The standard analog output is 0 to 1 milliamp for a burden resistance from 0 to 10,000 ohms. The WS series has



galvanic, or ohmic, isolation between the power supply and output. Each WS is factory tested for isolation exceeding 1500 VAC between these two sets of terminals.

The non conductive phenolic case mounts easily with two screws, and the terminal strips have built in wire clamps for quick and reliable connections. The label clearly indicates the numbered input and output terminals for easy installation. The anemometer easily mounts on a user supplied 1/2" rod or post and should be mounted at least 10 feet from large obstructions and at a height of 6' or more for best accuracy. Care should be taken not to mount the anemometer where exhaust fans, road traffic, or other sources of air flow will affect the readings.

This transducer is designed for use in the electrically noisy substation environment and meets the surge withstand requirements of ANSI 37.90.1-1989. The manufacturing process for Demico Transducers include:

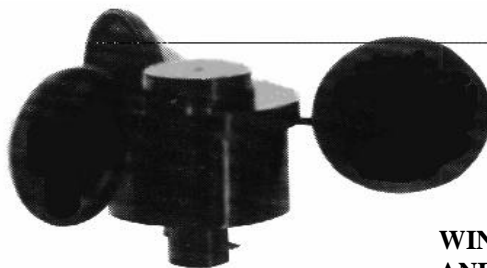
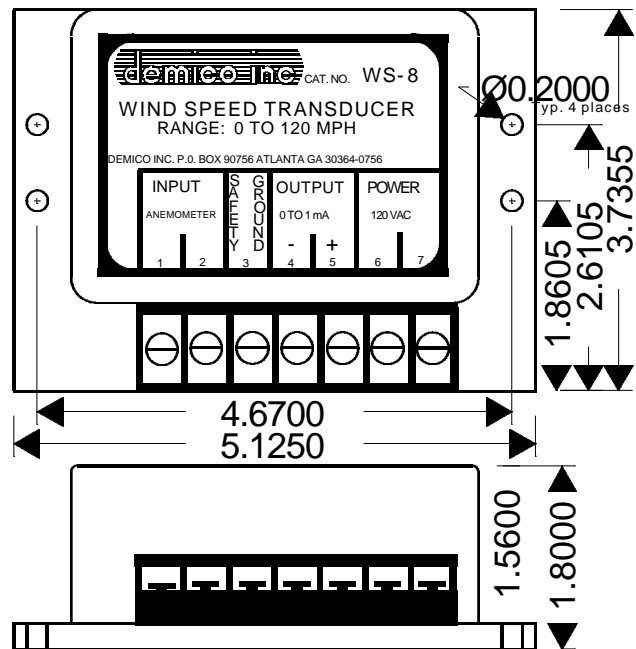
1. Boards are coated with polyurethane coating.
2. Burn in for 100 hours at 110 degrees F.
3. Power is cycled every 12 hours during burn in.
4. A 1500 VAC isolation test during final testing.

Demico takes these steps to ensure that our transducers provide good service over a long life. Demico's standard one year warranty includes parts and labor.

Note: Demico also has a companion Wind Bearing Transducer (WB) as well as Temperature, and Ambient Light (AL) Environmental transducers. See data sheets WB, TT, and AL.

Specifications

| | |
|---------------------------|-----------------------|
| Range | 0 to 120 mph |
| Accuracy | +/- 2 % |
| Output Compliance Burden | 0 to 10,000 ohms |
| Operating Temperature | -20 to +70 degrees C |
| Humidity | (polyurethane coated) |
| Maximum power | 4 VA |
| Power to Output Isolation | 1500 Vac |
| Surge Withstand | ANSI 37.90.1-1989 |
| Enclosure | Black Phenolic |
| Terminals | 8-32 with wire clamps |
| Warranty | 1 year Parts & Labor |



WIND SPEED ANEMOMETER

CATALOG PART NUMBER



1ST LETTER = PRODUCT IDENTIFICATION LETTER
 2ND LETTER = PRODUCT IDENTIFICATION LETTER
 3RD NUMBER = POWER SUPPLY VOLTAGE

POWER SUPPLIES

| | |
|--------------------|--------------------|
| 1 = 12 VDC | 5 = 250 VDC |
| 2 = 24 VDC | 8 = 120 VAC |
| 3 = 48 VDC | 9 = 240 VAC |
| 4 = 125 VDC | |