

ULTRASONIC 2-AXIS WIND SENSOR 5600-0210



SPECIFICATIONS

MEASUREMENT	
Output	1 Hz, 4 Hz, 10 Hz
Parameters	UV, Polar, NMEA, Tunnel
Units	m/s, Knots, MPH, KPH, ft./min.
Averaging	Flexible 1-3600 seconds
WIND SPEED	
Range	0 - 65 m/sec (0-145mph)
Accuracy	2%
Resolution	0.01 m/sec
Offset	±0.01 m/sec
WIND DIRECTION	
Range	0 - 359°
Accuracy	±2°
Resolution	1°
Sonic Temperature Output	
Range	-40°C to +70°C
ANEMOMETER STATUS	
Starting threshold	Part of standard message
Dead Band Wind Dir.	0.01 m/sec
POWER REQUIREMENT	
Anemometer only	None
Heating - Optional	9 - 30 VDC @ 40mA @ 12 VDC
	3A @ 24V AC or DCV
DIGITAL OUTPUT	
Communication	RS422, full duplex, network facility
Baud rates	1200, 2400, 4800, 9600, 19200, 38400
Formats	8 data, odd, even, or no parity
ANALOG OUTPUT - OPTIONAL	
Quantity	3 (speed, direction, status or sonic temperature)
Scale	Multiples of ±10m/s up to ±70 m/s
Type	±2.5V, 0-5V or 4-20mA
V output resistance	60 Ohms
4-20mA loading	10-300 Ohms
DIMENSIONS	
Weight	1.5 lbs. (.69 kg)
Size	405 mm high x 210 mm wide
MATERIALS	
External	Stainless Steel 316
ENVIRONMENTAL	
Moisture Protection	IP66 (NEMA4X)
Operating Temp	-55°C to +70°C
Humidity	5% to 100% RH
Precipitation	300mm/hr
Icing	MILSTO810E Method 521.1 Procedure 1
STANDARDS	
More Specifications	Traceable to NAMAS standards
Site Calibration	None required
CERTIFICATION	
	EMC tested
	BSEN 50081-1 1992 (Emissions class B)
	BSEN 50082-2 1992 (Immunity)
	Worldwide distribution
MTBF	10 years



APPLICATIONS

- Meteorological
- Transport
- Highways
- Military
- Aviation
- Wind turbines
- Tunnels
- Bridges
- Marine

FEATURES

- Decreased down time & service costs
- Continuous operation in extreme weather conditions
- Reduced set up and installation time
- No moving parts
- Can be configured to exact requirements including analog outputs
- Meets stringent performance criteria specified by international meteorological, naval and airport authorities
- Enhanced anti-icing design
- Analog outputs
- NMEA output
- User selectable output format
- Sonic temperature
- 1, 4, or 10 Hz output
- Communications software
- Calibration to international standards

ORDERING

5600-0210

Ultrasonic 2-Axis Wind Sensor

SUTRON