



ULTRASONIC WIND SENSOR 5600-0215



APPLICATIONS

- Ag-Met
- Automatic Weather Stations
- Pollution Control
- Hydro-Met
- Utilities
- HVAC

SPECIFICATIONS

| | |
|-----------------------|---|
| Wind Speed | |
| Range | 0 - 60 m/s (116 knots) |
| Accuracy | ±2% |
| Resolution | 0.01 m/s (0.02 knots) |
| Wind Direction | |
| Range | 0° - 360°, no dead band |
| Accuracy | ±3° |
| Resolution | 1° |
| Outputs | |
| Output | 1, 2 or 4 outputs/second |
| Parameters | Wind speed & direction or UV |
| Units | m/s, knots, mph, kph, ft/min |
| Option 1 | RS232 |
| Option 2 | RS232 + RS422 + RS485 |
| Option 3 | RS232 + RS422 + RS485 0-5V or 4-20mA |
| Option 4 | SDI-12 |
| Anemometer Status | Message is part of standard output . |
| Power Requirement | |
| Anemometer | 9-30Vdc @ 14.5mA typical; start-up time <1 second |
| MTBF | 15 years |
| Materials | Luran S KR 2861/1C ASA/PC |
| Weight | .45 kg (1 pound) |
| Mounting | Pipe Mounting 44.45 mm (1.75 inches diameter) |
| Environmental | |
| Moisture Protection | IP65 |
| Operating Temperature | -35° to +70° C |
| Storage Temperature | -40° to +90° C |
| Operating Humidity | <5% to 100% |
| EMC | EN 61000-6-2: 2001 EN 61000-6-3: 2001 |

FEATURES

- Consistent performance, no accuracy degradation from wear of moving parts
- Corrosion free, uv resistant material
- Low start speed (0.01 m/s, 0.09 knots)
- Maintenance free
- No calibration required
- Robust construction
- Software configurable
- Status code output
- True 0° - 360° operation (no dead band on direction output)
- Wind speed and direction from a single unit
- Economic to use
- Land-based or marine applications

FEATURES WITH SDI-12 OPTION

- Multiple WindSonic may be connected via one cable to a single SDI-12 data logger port.
- Greater distances with SDI-12 than those possible with analogue voltage outputs
- SDI-12 WindSonic interfaces with any SDI-12 compatible data logger.
- Reduced risk of data corruption - an SDI-12 digital signal is less likely to be corrupted by external interference than analogue signals.
- Avoid proprietary protocol or custom wiring and programming of data loggers.
- Power supply to the WindSonic may be supplied through a single data cable.
- Widely used in water resource research by government, industry and agricultural organizations

ORDERING

| | |
|-------------|---|
| Part Number | Description |
| 5600-0215-1 | Basic Ultrasonic Wind Sensor, Option 1, RS232 |
| 5600-0215-2 | Option 2: RS232 + RS422 + RS485 |
| 5600-0215-3 | Option 3: RS232 + RS422 + RS485 + 0-5V |
| 5600-0215-4 | Option 3: RS232 + RS422 + RS485 + 4-20mA |
| 5600-0215-5 | Option 4: SDI-12 |
| Accessory | |
| 6411-1151-1 | Cable Assy, WS/WD, 30 ft for 8200A/8210 |

SUTRON