Ultrasonic Wind Sensor
5600-0215

SPECIFICATIONS	
Specifications subject to change without notice	
WIND SPEED	
Range	0 - 60 m/s
Accuracy	±2% @12 m/s
Resolution	0.01 m/s (0.02 knots)
WIND DIRECTION	
Range	0° - 359°, no dead band
Accuracy	±2° @ 12 m/s
Resolution	1°
Response Time	0.25 seconds
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 @ 40mA
MTBF	10 years
ENVIRONMENTAL	
Moisture Protection	IP66
Operating Temperature	-35° to +70° C
Storage Temperature	-40° to +90° C
Operating Humidity	<5% to 100%
EMC	EN 61326: 1998
Materials	Luran S KR 2861/1C ASA/PC
Weight	.5 kg (1 pound)
Pipe Mounting	44.45 mm (1.75 in. diameter)

ORDERING	
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

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 WindSonics 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