

Ultrasonic Wind and Weather

- No moving Parts to Wear Out or Get Caught In Rigging
- Measures 5 Different Parameters
 - ✓ Apparent Wind Speed & Direction
 - ✓ Air Temperature
 - ✓ Barometric Pressure
 - ✓ Relative Humidity
- Maretron Displays Compute Wind Chill, Heat Index, Dew Point, True Wind*, and Ground Wind*

* Requires Additional Sensors

WSO100 *Ultrasonic Wind and Weather Station*

Maretron's outdoor weather station measures wind speed and direction, air temperature, barometric pressure, and relative humidity. The wind measurement is performed using ultrasonic sensors, which means there are no moving parts to wear out or to get caught in the rigging.

The WSO100 accurately measures wind speed and direction even when tilted, making it ideally suited for heeled sailboats or powerboats operating in pitching and rolling seaways.

When used with Maretron displays (DSM200/DSM250/N2KView*), you can view apparent wind speed and direction, humidity, air temperature, barometric pressure (with graphs to see trends), wind chill factor, heat index, and dew point. If you add speed through water (DST100), GPS (GPS100) and compass (SSC200), you can view true vessel referenced wind speed and direction as well as ground referenced speed and direction.



The WSO100 provides these functions:

- Apparent Wind Speed
- Apparent Wind Direction
- Atmospheric Pressure
- Air Temperature
- Relative Humidity

Products

| PART NUMBER | DESCRIPTION |
|-------------|---------------------------------|
| WSO100-01 | Ultrasonic Wind/Weather Station |

Maretron
Leading the way in marine electronics

www.maretron.com | 1-866-550-9100

Solid State Compass

- Solid State Technology – No Moving Parts, No Overshoot, Ultrafast Response Time
- Rate Gyro Compensation for Stable Heading in Dynamic Condition
- Optimum for Steering Autopilots in Rough Water
- Optimum Performance for Aligning Radar Images on Charts
- No Northerly Heading Problems Like fluxgate
- Installs on Steel-Hull Boats

SSC200 Solid State Compass

Maretron's SSC200 is a solid state, rate gyro electronic compass that provides better than 1° heading accuracy through ±45° of roll and pitch angle, and better than 1° roll and pitch accuracy in static conditions. Each SSC200 is factory calibrated for maximum accuracy. It delivers precise, reliable heading information ten times per second, plus vessel attitude including pitch and roll readings once per second. A micromachined rate gyro is used by advanced stabilization algorithms to provide accurate, stable readings during dynamically changing conditions such as hard turns or rough seas, making it an ideal heading sensor for autopilot applications.

Maretron's SSC200 is certified to the NMEA 2000® network standard and compatible with the NMEA 0183 digital interface standard. It connects directly with any NMEA 2000® network and/or NMEA 0183 listeners to share information with navigational software, chart plotters, autopilots, and dedicated instrument displays – including Maretron's DSM250 and DSM200 graphical displays.

The SSC200 can be automatically calibrated for deviation. Its dynamic accuracy is improved with advanced digital filtering of the 3-axis magnetometer, 2-axis accelerometer and rate gyro.

The SSC200 is engineered and manufactured to the highest standards (IEC 60945 Maritime Navigation and Radio Communication Equipment). Its compact waterproof housing will provide years of reliable performance.

| PART NUMBER | DESCRIPTION |
|-------------|-------------------------------|
| SSC200-01 | Solid State Rate/Gyro Compass |

Maretron
Leading the way in marine electronics

www.maretron.com | 1-866-550-9100



GPS Antenna Receiver

- 32 Channel with Satellite Based Augmentation System (SBAS) Including WAAS, EGNOS, and MSAS
- Five Position Fixes per Second
- World Magnetic Model 2010 for Accurate Magnetic Variation Anywhere In World
- Mounts on Standard 1" Marine Mount
- Provides Position, Satellite Status, Accuracy, COG, SOG, and Variation

GPS200 GPS Antenna/Receiver

Maretron's GPS200 is a state-of-the-art 32 channel GPS antenna and receiver capable of producing five position fixes per second. The GPS200 has unprecedented sensitivity and can even be mounted underneath a fiberglass deck. An additional benefit of the GPS200 is that it broadcasts precision magnetic variation information using the current position and world magnetic model (WMM-2010).

The GPS200 antenna/receiver is a plug-and-play device that is fully compliant and certified to the NMEA 2000® Standard. It will directly connect to any NMEA 2000® network and communicate with navigational software, chart plotters, autopilots and dedicated instrument displays – such as Maretron's DSM250 graphical display – and its compact, waterproof housing provides years of reliable performance.



The GPS200 automatically decodes GPS correction signals from Satellite Based Augmentation Systems (SBAS) including the North American Wide Area Augmentation System (WAAS), the European Geostationary Navigation Overlay System (EGNOS), or the Asian Multifunctional Transport Satellite-based Augmentation System (MSAS) to provide better than 2.5m accuracy.

The GPS200 is easily mounted to any 1" standard marine mount with its standard 1"-14" male threads. It can also be mounted directly to a deck.

Products

| PART NUMBER | DESCRIPTION |
|-------------|----------------------|
| GPS200-01 | GPS Antenna/Receiver |

Maretron
Leading the way in NMEA open standards

www.maretron.com | 1-866-550-9100

Depth, Speed, and Temperature

- Depth Operates at 235KHz Up to 60 Meters
- Speed, Trip and Cumulative Log
- Water Temperature from Minus -10°C to 40°C
- Removable Without Hauling Boat
- Bronze & Stainless Housings Available
- Programmable Transducer Offset Via Maretron Display

DST100 Depth/Speed/
Temperature Transducer

Maretron's DST100 Smart™ Retractable Depth/ Speed/Temperature Transducer, delivers precise digital depth, accurate speed and exact water temperature even at speeds above 40 knots — all with no programming or calibration necessary.

Its patented Smart™ Sensor technology, retractable and removable sensor, and NMEA 2000® network connectivity make the DST100 easy to interpret, easy to install and connect with other navigation equipment, and easy to maintain.

The DST100 measures precise water depth at 0.4m to 60m with a wide beam width and is tolerant to most deadrise angles. It reads water temperature from -10°C to +40°C at ±1.0°C accuracy, and accurate speed from 1 to 60 knots. At 235kHz it can be used with a fishfinder as an ideal navigation tool for sport or commercial fishing vessels—or with sailing vessels of all sizes.

The DST100's plastic, bronze, or stainless steel housing choices are compatible with any hull material. It includes a blank plug to replace its sensor unit when the vessel will be docked for extended periods or trailered. This prevents damage to the sensor and reduces fouling growth.

Maretron's DST100 is CE compliant (IEC945) and is manufactured to the highest quality standards under ISO9002/K procedures. Its compact, waterproof housing will provide years of reliable performance, making it the Smart™ choice in marine sensing.



| PART NUMBER | DESCRIPTION |
|-------------|--|
| DS100-01 | Depth/Speed/Temperature Transducer |
| MIS-100 | Bronze Housing Kit for DST100 |
| SS-495-01 | Stainless Steel Housing Kit for DST100 |
| SS-368-04PW | Spure Padde Wheel Kit |

Maretron
Leading the way in marine electronics

www.maretron.com | 1-866-550-9100