

TOTAL INTEGRATED DATA ACQUISITION SYSTEMS [TIDAS] S2 YACHTS — 900 BUOY

STANDARD FEATURES AND EQUIPMENT

- < Composite construction — Hull, deck, electronics housing, ballast tube
- < 900 pounds buoyancy capacity
- < Foam-filled hull/deck for buoyancy preservation
- < Solar panel power — 45 watts total, with 24 amp/hour sealed lead acid battery pack and solar charge controller
- < Compact, easy-to-deploy, with integrated lifting points (3) for easy launch/retrieval
- < Removable electronics housing/mast — Quick, easy updating/maintenance/service
- < Sealed NEMA enclosure compartments — Open, expandable architecture
- < NDBC compatible
- < Integrated wire harnessing — Fully sealed marine connectors and components, designed and built to NEMA specifications
- < Serviceable ballast
- < Self contained, sealed LED strobe — USCG approved two nautical mile rated navigation light
- < Integrated radar reflector
- < Single point mooring with integrated mooring tackle

DATA ACQUISITION CAPABILITIES

- < Sensors to measure:
 - Solar radiation
 - Wind speed, direction, and gust magnitudes
 - Air temperature
 - Relative humidity
 - Barometric pressure
 - Precipitation
 - Current direction and velocities at chosen depths
 - Water temperature at chosen depths
- < Inertial Wave Sensor (IWS):
 - Wave direction
 - Wave height
 - Wave period
- < Water Quality:
 - Dissolved oxygen
 - Blue-green algae
 - Turbidity
 - Chlorophyll
 - pH
 - Salinity
 - Temperature
 - Depth
 - Conductivity
- < Near-real-time reporting capability
- < Data Telemetry Options — Nexsens™ Acquisition Systems (with 2mb memory):
 - Data logger (no telemetry)
 - Data logger with radio telemetry
 - Data logger with cellular telemetry
 - Data logger with WiFi connection
- < Custom trailer for easy transport and deployment

900 BUOY OPTIONAL INERTIAL WAVE SENSOR (IWS)

- The Inertial Wave Sensor is designed to resolve details of the directional spectral wave field — First 5 Standard
- Engineered specifically for the 900 buoy to maximize accuracy
- Fully sealed environmental packaging for long service life
- Surface mount PCB technology for advanced durability
- Produces a serial output capable of integrating with all forms of data logger systems

SPECIFICATIONS

- Buoy diameter - 3'8" (1.12m)
- Height above waterline - 9'10" (3m)
- Buoy draft/depth below waterline - 6'6" (1.97m)
- Weight (buoy, hull, deck, etc.) - 350 lbs (158.76kg)
- Weight, modular ballast - 100 lbs (45.36kg)
- Weight, suspended ballast - 160 lbs (72.57kg)
- Total weight - 610 lbs (276.69kg)
- 20' polypropylene mooring pennant

SERVICE AND WARRANTY

- < Service support provided through dedicated brand representatives
- < Five-year warranty coverage on all S2 Yachts manufactured components
- < Other component warranty coverage equal to supplier warranty policies



NAVIGATION LIGHT

INTEGRATED RADAR REFLECTOR

CONFIGURABLE ALUMINUM MAST

FIELD-REMOVABLE ELECTRONICS HOUSING SUPERSTRUCTURE FOR EASY MAINTENANCE/SERVICE

EXPANDABLE, OPEN ARCHITECTURE

6 STANDARD SOLAR PANELS, 45 WATTS TOTAL POWER

COMPOSITE FOAM-FILLED DECK/HULL WITH INTEGRATED LIFTING POINTS (3)

COMPOSITE BALLAST TUBE WITH COUNTERWEIGHT AND TETHER ATTACHMENT, 100# INTEGRATED BALLAST AND 160# SUSPENDED BALLAST, SINGLE POINT MOORING

