**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 — Nexsen™ 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

### Specifications
- Buoy diameter: 3'8" (1.12m)
- Height above waterline: 9'10" (3m)
- Buoy draft/depth below waterline: .66' (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