

Device	DMS SmartView Location	Node #	Slot #	Sampling Interval (sec)	Sampling Duration (sec)	Sampling Offset (sec)	Other Settings/Notes
WM500 Node Manager	Primary --> Station Config --> Nodes (#) --> Slots (#) --> Config Params	1	0	600	600	0	
GPS Generic (Watch Circle)	Primary --> Station Config --> Nodes (#) --> Slots (#) --> Config Params	1	2	600	180	0	Watch circle radius: 300 m
AIS	Primary --> Station Config --> Nodes (#) --> Slots (#) --> Config Params	1	4	3600	3600	0	MMSI #: invalid MMSI
Lantronix (cell comms)	Primary --> Station Config --> Nodes (#) --> Slots (#) --> Config Params	1	5	600	480	120	Primary Host Address and Port: 130.20.68.211:6163 Secondary Host Address and Port: 69.196.73.165:50000
Pulse Anemometer 1 - Cup	Primary --> Station Config --> Nodes (#) --> Slots (#) --> Config Params	1	7	600	600	0	
Pulse Anemometer 1 - Vane	Primary --> Station Config --> Nodes (#) --> Slots (#) --> Config Params	1	7	600	600	0	
Pulse Anemometer 2 - Cup	Primary --> Station Config --> Nodes (#) --> Slots (#) --> Config Params	1	8	600	600	0	
Vindicator WLS	Primary --> Station Config --> Nodes (#) --> Slots (#) --> Config Params	1	9	600	600	0	Range Gates (m): 55, 70, 90, 111, 130, 160
Analog Humidity	Primary --> Station Config --> Nodes (#) --> Slots (#) --> Config Params	1	10	600	600	0	Humidity range: 0 - 110
Air Temperature	Primary --> Station Config --> Nodes (#) --> Slots (#) --> Config Params	1	10	600	600	0	Temperature range: -40 - 60
Dew Point	Primary --> Station Config --> Nodes (#) --> Slots (#) --> Config Params	1	10	600	600	0	
TRIAXY OEM	Primary --> Station Config --> Nodes (#) --> Slots (#) --> Config Params	1	11	1200	1200	0	
Generator	Primary --> Station Config --> Nodes (#) --> Slots (#) --> Config Params	1	13	N/A	N/A	N/A	Voltage Auto Start Threshold: 24.7V
WM500 Node Manager	Primary --> Station Config --> Nodes (#) --> Slots (#) --> Config Params	2	0	600	600	0	
PTB100 (barometric pressure)	Secondary --> Station Config --> Nodes (#) --> Slots (#) --> Config Params	2	7	600	600	0	
BlueTooth	Primary --> Station Config --> Nodes (#) --> Slots (#) --> Config Params	2	27	600	600	0	Set to off (0)
Turbine AirDolphin	Primary --> Station Config --> Nodes (#) --> Slots (#) --> Config Params	2	33	600	600	0	
ChargeMonitor SunSaver (solar panels)	Primary --> Station Config --> Nodes (#) --> Slots (#) --> Config Params	2	34	600	600	0	
WM500 Node Manager	Secondary --> Station Config --> Nodes (#) --> Slots (#) --> Config Params	1	0	600	600	0	
ADC Input (Pyranometer)	Secondary --> Station Config --> Nodes (#) --> Slots (#) --> Config Params	1	6	600	600	0	

YSI Thermistor (sea temp)	Secondary --> Station Config --> Nodes (#) --> Slots (#) --> Config Params	1	9	600	600	0	
Nortek ADCP	Secondary --> Station Config --> Nodes (#) --> Slots (#) --> Config Params	1	12	600	600	0	Sampling duration changed from 300 to 600 for 1Hz logging
Seabird CTD	Secondary --> Station Config --> Nodes (#) --> Slots (#) --> Config Params	1	13	600	600	0	Sampling duration changed from 300 to 600 for 1Hz logging

DMS Alert Notifications	Use same thresholds as DMS alerts for VA buoy
Nav Light	Flash pattern and candela set to PATON requirments

PNNL NJ WS (130)

Message List

Date: 20151025



Message #	Message Name	Message Type	Message Format	Interval (s)	Creation Offset	# of Transmits
WM500 Primary						
1	MET	NMEA	DMS	600	5	1
2	Avg Vindicator Data	NMEA	DMS	600	10	1
3	Status	NMEA	DMS	600	15	1
4	Net Power Stats	NMEA	DMS	600	20	1
5	Wave Statistics	NMEA	DMS	1200	300	1
6	Binary Vindicator Data	NMEA	DMS	1	1	0
7	1-sec Data	NMEA	DMS	1	0	0
8	IDP/Iridium 30min Primary	NMEA	DMS	1200	300	1
9	IDP/Iridium 1hr Secondary	NMEA	No header or checksum	3600	40	1
10	Off Positon	NMEA	DMS	86400	600	1
11	Generator	NMEA	DMS	60	25	1
12	Turbine 1 and Battery Chg Amm	NMEA	DMS	600	30	1
13	Solar and Gen Ammeter Pwr	NMEA	DMS	600	32	1
14	Inverter and 24/12V Conv Amme	NMEA	DMS	600	34	1
15	Vind and Airdolphin Pwr	NMEA	DMS	600	36	1
16	MPPT Power and Statistics	NMEA	DMS	600	38	1
17	Secondary MET/Status/ADCP	NMEA	No header or checksum	600	5	1
18	AIS Met/Hydro	Binary	Raw	180	20	1
19	IDP/Iridium 10min	NMEA	DMS	600	45	1
20	IDP/Iridium 1hr	NMEA	DMS	3600	50	1
WM500 Secondary						
1	Met/Status/Ocean	NMEA	DMS	600	0	1
2	IDP/Iridium 1hr	NMEA	DMS	3600	600	1
3	1Hz Data	NMEA	DMS	1	0	0

PNNL NJ WS (130)

Device List

Date: 20151025



Device	Manufacturer	Model #	Part #	S/N	Notes
METOCEAN SENSORS					
WLS - LIDAR BLU	OADS	600-0037-00	Vindicator III	600-0037-00-3009	Manufactured: 07-2014
WLS - LIDAR RLU	OADS	500-0609-00	Vindicator III	500-0609-00-0109	Manufactured: 07-2014
WLS - LIDAR ECU	OADS	500-0611-00	Vindicator III	500-611-00-0108	Manufactured: 06-2014
Pulse Anemometer 1 - Vane (port)	Vector Instruments	WP200/WR	N/A	60368	
Pulse Anemometer 1 - Cup (port)	Vector Instruments	A100R	N/A	12886	
Pulse Anemometer 2 - Cup (strbd)	Vector Instruments	A100R	N/A	12875	
Analog Humidity & Air Temperature	Rotronic Instruments	MP101-A	N/A	61441784	
Barometer	RM Young	61302V	N/A	BPA 8510	
Pyranometer	LI-COR	Pyranometer	N/A	PY86283	
TRIAXYS OEM	AXYS Technologies	Next Wave II	N/A	TAS05842	
Sea Surface Temperature	AXYS Technologies	YSI	N/A		check stamp on bolt and/or sensor cable label
ADCP	Nortek	AQUAPRO 400kHz	P27147-3	Head ID: AQP 6853	Hardware ID: AQD 11683
CTD	Sea-Bird Electronics	37SMP 350m	37SMP. 13100	37-12362	
Tilt/Compass	Microstrain	3DM GX3 25	N/A	6223.36117	
DATA & TELEMETRY SYSTEMS					
WM500 Primary	AXYS	WM500 1		WM504060	
WM500 Secondary	AXYS	WM500 2		WM504050	
Serial-Ethernet Server	Lantronix	EDS1100	080-409-000-R	00-80-A3-94-D1-7C	
HSPA (cellular)	MultiTech	rCell H5		16357167	AT&T SIM - Static IP: 166.130.102.70 Phone: 910-274-4232
BlueTooth	Parani	SENA SD1000			
AIS	L3	ATN01			
Isat Data Pro	Skywave	IDP-690		01038046SKY9893	Terminal ID: 01038046SKY9893
Iridium	Joubeh	9522B		IMEI: 300025010240320	
GPS - LIDAR	Garmin				
GPS - AIS	Garmin				
POWER SYSTEMS					
Diesel engine	Kubota	Z602-E		7S8119	
Alternator	Ample Power	4100-24		7S8119	
Turbine	Zephyr Corporation	AirDolphin		330611211346	
Solar Panels	SANYO	220W			
Batteries (40)	SunLyte				
Enermatic Controller	Ample Power			7S8119	
Charge Monitor (solar)	Morningstar	Sunsaver MPPT			
Battery Charger	Mastervolt	Chargemaster			
OTHER					
Hull	AXYS	NOMAD		6NB00130	
Navigation Light	Carmanah	M850	1360031501		Flash Code: 174; Candela: 31
Water Intrusion Sensor	AXYS				
Air system pressure sensor			209150CPS2M2506	06 15 6559285	
WM500 Primary Enclosure Box	AXYS			WM504060	Rittal S/N: 073056
WM500 Secondary Enclosure Box	AXYS			WM504050	