ISO 9001:2000 COMPANY

ORIOLE WIND SPEED & DIRECTION SYSTEM v1

IDEAL METEOROLIGAL SUPPORT FOR MARINE SHIPS & PLATFORMS

– ***ACCURATE*** – ***EASY TO OPERATE***

– ***VALUE FOR MONEY*** – ***INDIGENOUS WITH LOCAL SUPPORT***

Features/Benefits

- Superior data availability and accuracy in all wind directions due to the patented three transducer layout
- No maintenance needed
- Theoretical mean time between failures (MTBF) 26 years
- Effects of temperature, humidity and pressure fully compensated
- Large transducer heads are insensitive to rain
- RS232/485/422, SDI-12 and analog outputs
- Operates with 10...15 VDC, additional 36 VDC required for heated model
- Stainless steel as standard sensor material
- Field verification device available
- Can be mounted upside down
- US National Weather Service relies on Vaisala ultrasonic technology

ORIOLE WSDS v1 BASED ON VAISALA WS 425 ULTRA SONIC SENSORS FOR ACCURATE & STABLE MEASUREMENTS, ORIOLE CUSTOMIZED COMPUTER INTERFACED WITH SHIP'S GYRO, LOG AND/OR GPS AND MULTIPLE COMPOSITE DISPLAYS PROVIDING

- TRUE WIND SPEED & DIRECTION
- RELATIVE WIND SPEED & DIRECTION
- GPS LATITUDE & LONGITUDE
- SPEED ON GROUND/LOG
- COURSE MADE GOOD/SHIP'S HEADING

	SENSOR SPECIFICATIONS
Range	0-125kts
Accuracy	(range 0...65 m/s) ± 0.135 m/s (±0.3 mph, ±0.26 knots) or 3% of reading, whichever is greater
Resolution	0.1kts
Range	0...360°
Accuracy	(wind speed over 1 m/s) ±2°
Resolution:	1°
Dimensions	14"(h) x 10"(w) x 12" (d)
Weight	1.7 kg (3.7 lbs)
Anti-icing	Operating power supply 10...15 VDC, 12 mA typical (analog) and for heated model 36 VDC ±10 %, 0.7 A
Material	Body stainless steel (AISI 316), Sensor arms stainless steel (AISI 316), Transducer heads silicone rubber
Environmental Compliance	EMC standard EN61326-1:1997 + Am1:1998 + Am2:2001; Generic Environment
Operating temperature	WS425 non-heated –40...+55 °C (-40...+131 °F), WS425 heated –55...+55 °C (-67...+131 °F)
Outputs	Digital outputs type RS422 with baud rate 1200 to 19,200 adjustable
Response characteristics	Maximum reading rate 1 per second, sonic measurement time 0.2 s, signal processing time 0.15 s, response time 0.35 s
Regulatory Compliances	EN55011 Class A Group 1 & EN50082-2 for • Radiated Emissions • Conducted Emissions • Electrostatic Discharge • Radiated susceptibility • Conducted susceptibility • Electrical task transient burst surge • Magnetic susceptibility • Voltage dips & interrupts
Electromagnetic compatibility	MIL-STD-426 Method RS03
Tested for salt spray	MIL-STD-810 Method 501 Process 1
Mechanical Shock	MIL-STD-202 Method 213
Mechanical Vibrations	MIL-STD-167-1 (SHIPS)
Calibration	India Meteorological Department , Pune, Vaisala Measurements Standards Laboratory (MSL), accredited by FINAS according to ISO/IEC 17025 (K008)

ORIOLE WIND COMPUTER

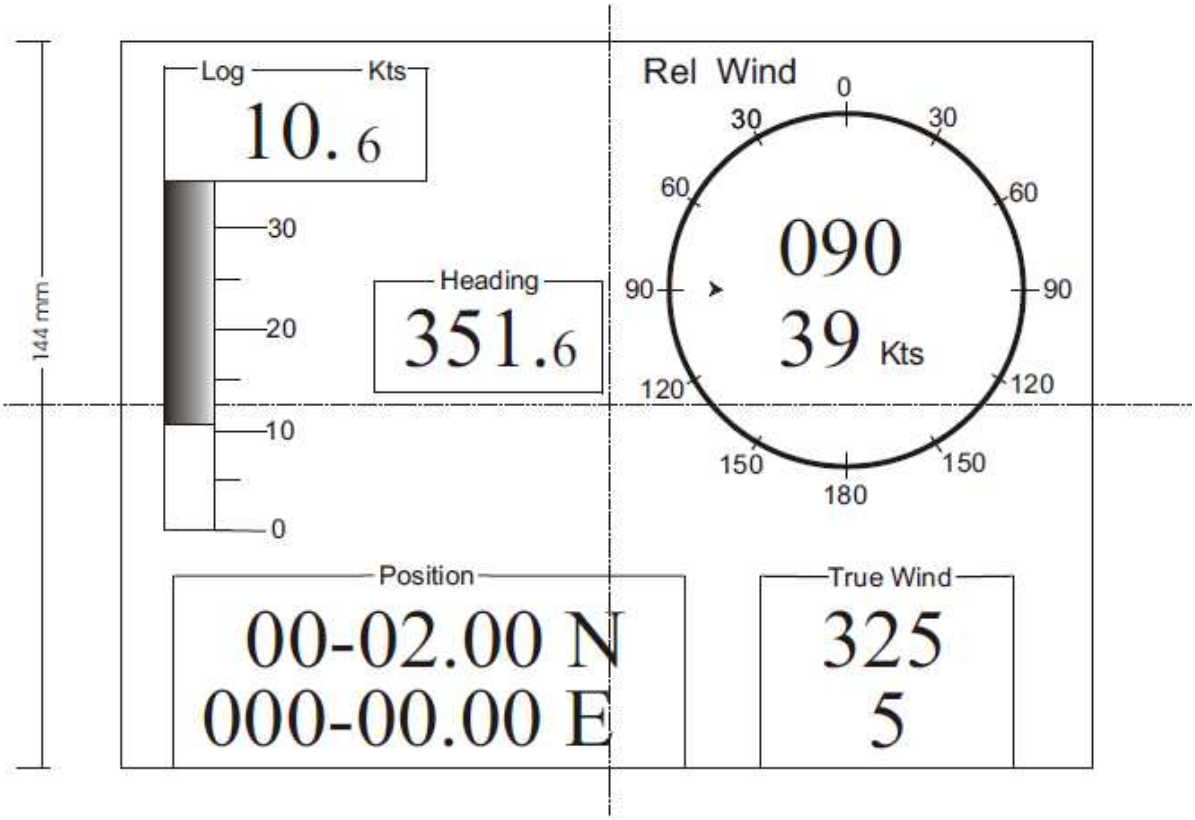
COMPUTER SPECIFICATIONS

Features

- Auto Windward Sensor Selection
- True & Relative Wind data Outputs
- Wind Flow Data Correction
- Displays Ship's Data (Gyro, Log, SOG, CMG, LAT, LONG)
- Provides Error indication
- User Interface through LCD and 4 keyboard on Wind Computer
- Logs wind data for a period of 7 days

Power Supply	115/230V AC, /-5 % 50 Hz & 60 Hz
Dimensions	240 x 223 x 100 mm
Weight	3 Kg

ORIOLE MULTIPLE COMPOSITE DISPLAY



	DISPLAY SPECIFICATIONS
Resolution	640 x 480 pixels with dot size 0.27 x 0.27mm and dot pitch as 0.3 x 0.3 mm
Viewing Angle	6 o'clock or 12 o'clock
Backlite	Fully dimmable through contrast control
Interface	RS422 NMEA, Baud Rate: 9600 Connector: 4 Pin *Phoenix* Plug and Housing
Power Supply	85~264VAC; 120~370VDC
Dimensions	202(h) x 306(w) x 56(d) mm OR 10.4"
Weight	Panel: 353.5 gms; Display: 2.21 Kg

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