

WS-200

WEATHER STATION



Sensor Functions:

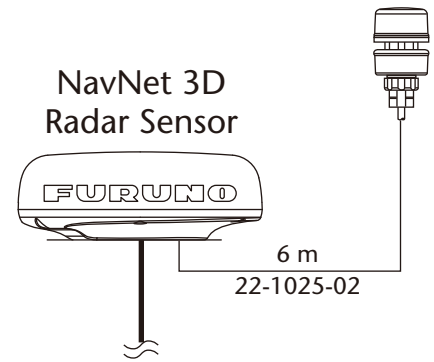
- Apparent wind speed
- True wind speed
- Apparent wind direction
- True wind direction
- Rate of turn
- Pitch and roll
- GPS information
- Barometric pressure
- Wind chill temperature
- Air temperature

- ▶ **Ultrasonic Weather Station detects instantaneous changes in the weather**
- ▶ **Provides essential weather readings with no moving parts**
- ▶ **Continuous operation in adverse weather conditions**
- ▶ **Standard 1" mount accommodates existing mounted hardware**
- ▶ **Supports both NMEA2000® and NMEA 0183**

NMEA 2000® is a registered trademark of the National Marine Electronics Association.

FURUNO NMEA 2000® base network

The WS-200 Weather Station incorporates an NMEA 2000® port which can be directly connected to a NavNet 3D radar sensor. Power for the WS-200 is supplied from an NMEA 2000® bus. This unique feature allows for flexible installation of multiple NMEA 2000® sensors without the need to run cables all the way to the main processor unit. NMEA 2000® data is converted and distributed throughout the NavNet 3D Ethernet network.



SPECIFICATIONS OF WS-200

Wind Speed Accuracy	0 – 10 kt: RMS 1 kt (±10%) 10 – 80 kt: 2 kt (±5%) RMS 5 kt in wet conditions
Range	0 – 80 kt
Resolution	0.1 kt
Wind Direction Accuracy	4 – 10 kt: RMS 6° more than 10 kt: RMS 3° RMS 8° in wet conditions
Resolution	0.1°
Pitch and Roll Accuracy:	±1° (-45° to +45°) Do NOT use WS-200 for applications that require tracking accuracy of Pitch and Roll.
Rate of Turn Accuracy:	3° / sec RMS
GPS Receiver frequency	L1 (1575.42 MHz)
Accuracy	GPS: 10 m (2drms) WAAS: 3 m (2drms)
Time to First Fix	52 seconds typical (cold start)
Barometric Pressure Accuracy	±20 mb (±20 hPa)
Range	850 to 1150 mb (850 to 1150 hPa)
Wind Chill Temperature Temperature	Under 10 °C (@>2.6 kt wind)
Air Temperature Accuracy	±1.1° (@>4.6 kt wind)
Range	-25 to +55 °C

Environmental Conditions Temperature	Operating Temperature: -25 to 55 °C Storage Temperature: -30 to 70 °C
Water Resistance	IP56

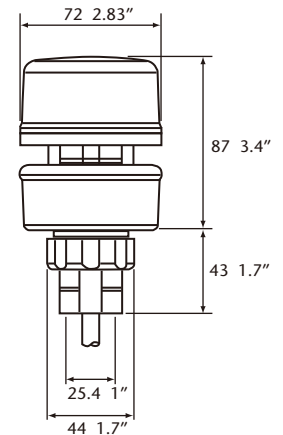
Power Supply
12 VDC (9 – 16 VDC)

Equipment List

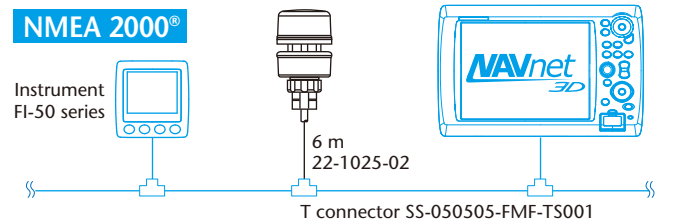
Standard		
1. Weather Station WS-200	1 unit	
2. Cable Assembly (NMEA2000®) 22-1025-02	6 m	
3. Pipe Mount Kit WS-200-PIPEKEI	1	
4. Installation Materials		
Option		
1. Cable Assembly (NMEA2000®) 22-1025-02/06	6 m/10 m	
2. Cable Assembly (NMEA0183) 22-910-03	10 m	
3. Cable Assembly (NMEA0183) MJ-A7SPF/SRMD-100	10 m	

DIMENSIONS AND WEIGHT WS-200

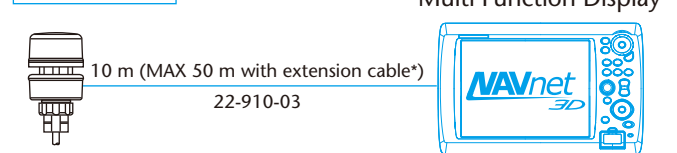
0.3 kg 0.66 lb



INTERCONNECTION DIAGRAM



NMEA 0183



* option or local supply
* For further info, contact our depot

TRADEMARK REGISTERED
SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

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