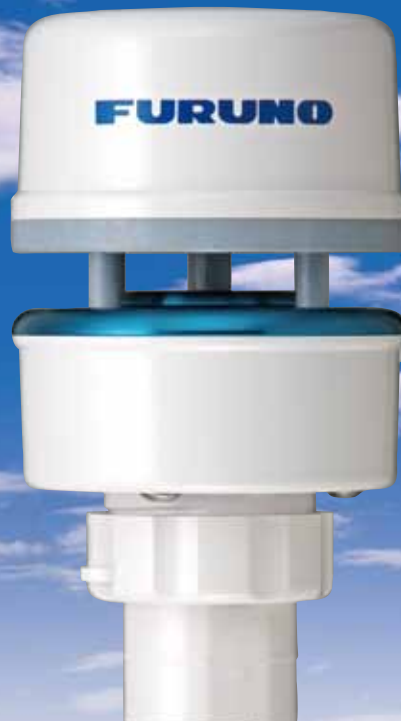


# WS-200

## WEATHER STATION



### Sensor Functions:

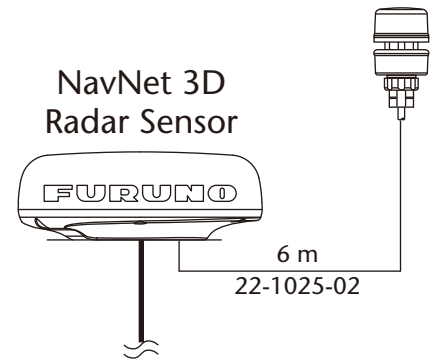
- Apparent wind speed
- True wind speed
- Apparent wind direction
- True wind direction
- Rate of turn
- Pitch and roll
- GPS information
- Barometric pressure
- Wind chill temperature
- Air temperature



- ▶ **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 CAN bus and NMEA 0183**

## FURUNO CAN bus base network

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



## SPECIFICATIONS OF WS-200

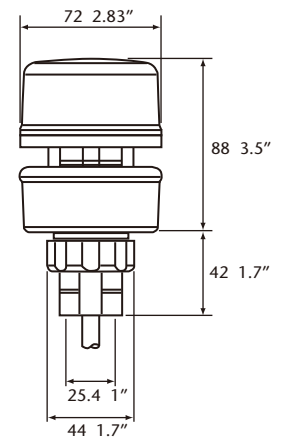
<b>Wind Speed Accuracy</b>	0 – 10 kt: RMS 1 kt ( $\pm 10\%$ ) 10 – 80 kt: 2 kt ( $\pm 5\%$ ) RMS 5 kt in wet conditions
<b>Range</b>	0 – 80 kt
<b>Resolution</b>	0.1 kt
<b>Wind Direction Accuracy</b>	4 – 10 kt: RMS 6° more than 10 kt: RMS 3° RMS 8° in wet conditions
<b>Resolution</b>	0.1°
<b>Pitch and Roll Accuracy:</b>	$\pm 1^\circ$ (-45° to +45°) Do NOT use WS-200 for applications that require tracking accuracy of Pitch and Roll.
<b>Rate of Turn Accuracy:</b>	3° / sec RMS
<b>GPS Receiver frequency</b>	L1 (1575.42 MHz)
<b>Accuracy</b>	GPS: 10 m (2drms) WAAS: 3 m (2drms)
<b>Time to First Fix</b>	52 seconds typical (cold start)
<b>Barometric Pressure Accuracy</b>	$\pm 20$ mb ( $\pm 20$ hPa)
<b>Range</b>	850 to 1150 mb (850 to 1150 hPa)
<b>Wind Chill Temperature Temperature</b>	Under 10 °C ( $@ > 2.6$ kt wind)
<b>Air Temperature Accuracy</b>	$\pm 1.1^\circ$ ( $@ > 4.6$ kt wind)
<b>Range</b>	-25 to +55 °C
<b>Environmental Conditions Temperature</b>	Operating Temperature: -25 to 55 °C Storage Temperature: -30 to 70 °C
<b>Water Resistance</b>	IP56
<b>Power Supply</b>	12 VDC (9 – 16 VDC)

### Equipment List

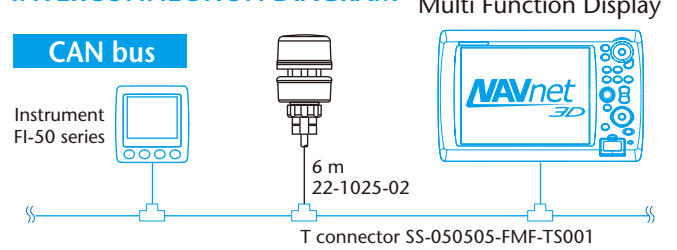
Standard		
1. Weather Station WS-200		1 unit
2. Cable Assembly (CAN bus) 22-1025-02		6 m
3. Pipe Mount Kit WS-200-PIPEKEI		1
4. Installation Materials		
Option		
1. Cable Assembly (CAN bus) 22-1025-02/06		6 m/10 m
2. Cable Assembly (NMEA0183) 22-910-03		10 m
3. Cable Assembly (NMEA0183) MJ-A7SPF/SRMD-100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

## DIMENSIONS AND WEIGHT WS-200

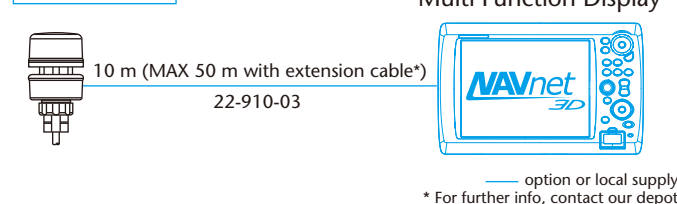
0.3 kg 0.66 lb



## INTERCONNECTION DIAGRAM



## NMEA 0183



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

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SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

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