



# INSTALLATION INSTRUCTIONS

NMEA 2000® to USB

## U200 Gateway

for WeatherStation® Instrument  
GPS Receiver  
Heading Sensor

Patent <http://www.airmar.com/patent.html>



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**Follow the safety precautions below to reduce the risk of poor product performance, property damage, personal injury, and/or death.**

**WARNING:** Always wear safety glasses, a dust mask, and ear protection when installing.

**WARNING:** The power supply must be OFF before proceeding with the installation.

**WARNING:** The Gateway is powered by the USB connection at 5 V.

**WARNING:** A safe installation requires a 0.5 amp fast-blow fuse or circuit breaker. Except WeatherStation® models with a heater require a 3 amp fast-blow fuse or circuit breaker.

**WARNING:** The power source must be isolated from the engine start battery(s). Voltage drops may cause the instrument/receiver/sensor to lose information and/or change operating mode.

**IMPORTANT:** Please read the instructions completely before proceeding with the installation. These instructions supersede any other instructions in your instrument manual if they differ.

## Applications

The Gateway allows information to be displayed on a PC by converting data from NMEA 2000 CAN to USB format.

## Baud Rate

115,000

## Tools & Materials

Safety glasses  
Dust mask  
Ear protection  
Pencil  
Electric drill  
Drill bit: 3mm or 1/8"  
Phillips screwdriver  
Cable ties (some installations)

## Cable Routing & Connecting Guidelines

**CAUTION:** To reduce electrical interference from other electrical wiring and any on-board equipment with strong magnetic fields such as radar equipment, radio transmitters, engines, generators, etc., separate the cables by at least 1 m (3'). Ensure that all the cable shields are appropriately grounded.

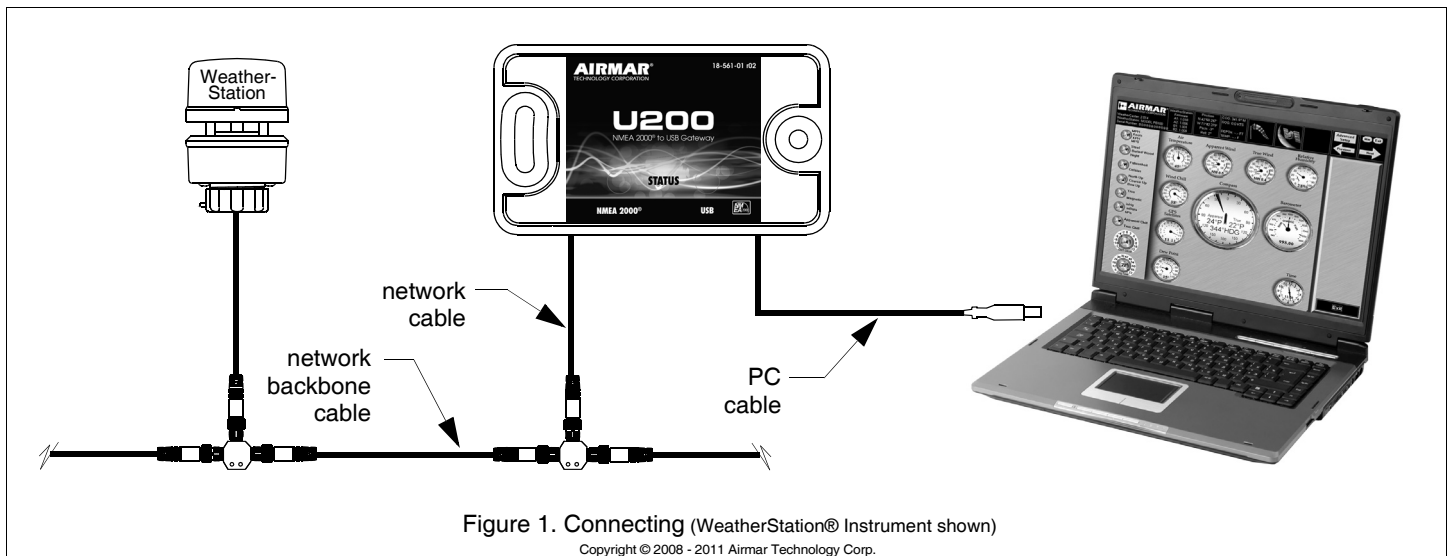
**CAUTION:** Do not remove the waterproof connector(s) to ease cable routing. Removing the waterproof connector will void the Gateway's warranty.

**CAUTION:** Be careful not to tear the cable jackets when passing them through compartments, bulkheads, or walls. Use grommets to prevent chaffing.

**CAUTION:** Coil any excess cable(s) and secure with cable ties to prevent damage.

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

\* WeatherStation® and WeatherCaster™ are registered trademarks of Airmar Technology Corporation.



## Installation

### Mounting Location

1. Select a convenient, dry, mounting location for the water-resistant Gateway, a minimum of 1 m (3') from the PC (Figure 1).
2. Hold the Gateway at the selected location and mark the position of the screw holes. If the box will be mounted on a vertical surface, face the cables downward to avoid water seeping into the box.
3. At the marked locations, drill the holes for the screws. *Do not fasten the Gateway in place at this time.*

### NMEA 2000 Network Cable

Route the network cable from the Gateway to the network backbone cable. *Do not connect the cable or fasten it in place at this time.*

### PC Cable

Route the PC cable from the Gateway to the PC. *Do not connect the cable or fasten it in place at this time.*

### Completing the Installation

1. Fasten the Gateway in place with the screws supplied.
2. Plug the NMEA 2000 network cable into the network.
3. Plug the PC cable into the PC.
4. Fasten all the cables in place. Coil any excess cable(s) and secure it with cable ties to prevent damage.

## Operation

### LED Status Lights

There are two, green, LED status lights that will flash when the Gateway is operating. One LED monitors the NMEA 2000 bus and the other monitors the USB port.

## Parts

Obtain parts from your instrument manufacturer or marine dealer.

### Gemeco

### USA

Tel: 803-693-0777

email: sales@gemeco.com

### Airmar EMEA

### Europe, Middle East, Africa

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