

FURUNO SUPPLEMENT

Parts

USA	Gemeco	Tel: 843.394.3565
		Fax: 843.394.3736
		email: sales@gemeco.com
Europe & Rest of World	Airmar Europe	Tel: +45.45.81.04.18
		Fax: +45.45.81.04.93
		email: sales@airmareurope.com

Connecting a WeatherStation to a Furuno RD-30

This guide contains supplementary instructions for connecting an Airmar WeatherStation to a Furuno RD-30 display. Use these instructions along with the owner's guide that came with your Airmar WeatherStation.

Connecting Directly to a Furuno RD-30 Display

A special cable allows you to connect the WeatherStation directly into the AUX port of an RD-30 (see Figure A). This cable (part number 33-910-XX) has its own power leads to provide DC power to the WeatherStation.

A separate power connection is needed to power the RD-30 itself through the standard Furuno display cable. The RD-30 **DOES NOT** supply power to the WeatherStation.

Connect the WeatherStation to the AUX port of the RD-30. If the WeatherStation is connected to the IN/OUT port by mistake, the RD-30 would have *no* DC power and would not function.

Note: Multiple RD-30 displays can be daisy-chained together, as described in the Furuno user's manual. In this case, the WeatherStation must be connected to the last RD-30 in the chain.

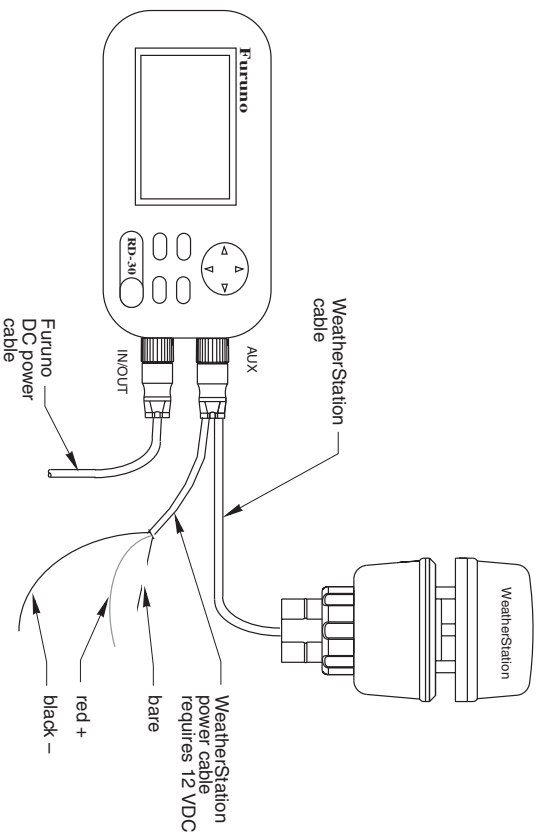


Figure A. Connecting to an RD-30

Copyright © 2006 Airmar Technology Corp.

AIRMAR®

TECHNOLOGY CORPORATION

35 Meadowbrook Drive, Milford, New Hampshire 03055-4613, USA
www.airmar.com

Copyright © 2006 Airmar Technology Corp. All rights reserved.

Connecting a WeatherStation to an Airmar Combiner

To connect the WeatherStation to the Combiner there are three ways to proceed.

- Purchase and install the standard WeatherStation cable (part number 33-862-XX) to connect the WeatherStation directly to the Combiner.
- Purchase an adapter (part number 33-912-XX) for the Furuno cable (part number 33-910-XX) that came with the WeatherStation. This adapter converts the Furuno connector to a Combiner connector. Add the adaptor and plug the WeatherStation directly into the Combiner. The power leads must be connected to a 12 VDC power supply.

- Wire the Furuno cable to the Combiner

1. Cut the Furuno connector off the Furuno cable (part number 33-910-XX) (see Figure B).
2. Remove the Combiner cover. Using a small Phillips screwdriver, puncture one of the grommets labeled AUX NMEA OUT. *Be careful*/not to damage the circuit board.
3. Push approximately 200 mm (8") of the cable through the grommet. To ease sliding, apply alcohol to the cable jacket.
4. Strip 60 mm (2-1/2") of the outer jacket and foil shielding from the cut end of the cable.
5. Strip 10 mm (3/8") of conductor insulation from the end of each colored wire.
6. Protect the cable's foil shielding from causing a short by wrapping electrical tape around the jacket where the wires emerge from the cable. The tape *must* overlap the wires a minimum of 6 mm (1/4").
7. From outside the Combiner, *carefully* pull the cable until only 13mm (1/2") of the cable jacket remains inside.
8. Attach each wire to the WeatherStation terminal strip in parallel with the wires from the factory mounted connector (see Figure 9 in the main Owner's Guide). Match color for color.

Note: The bare wire is equivalent to the green wire in the Combiner.

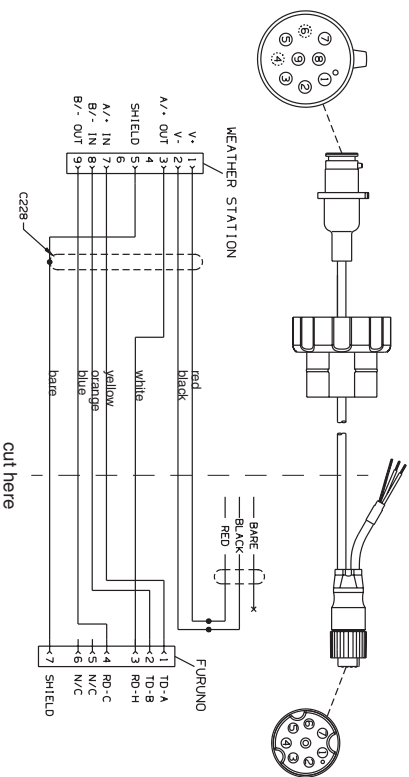


Figure B. WeatherStation to RD-30 cable (part number 33-910-XX)

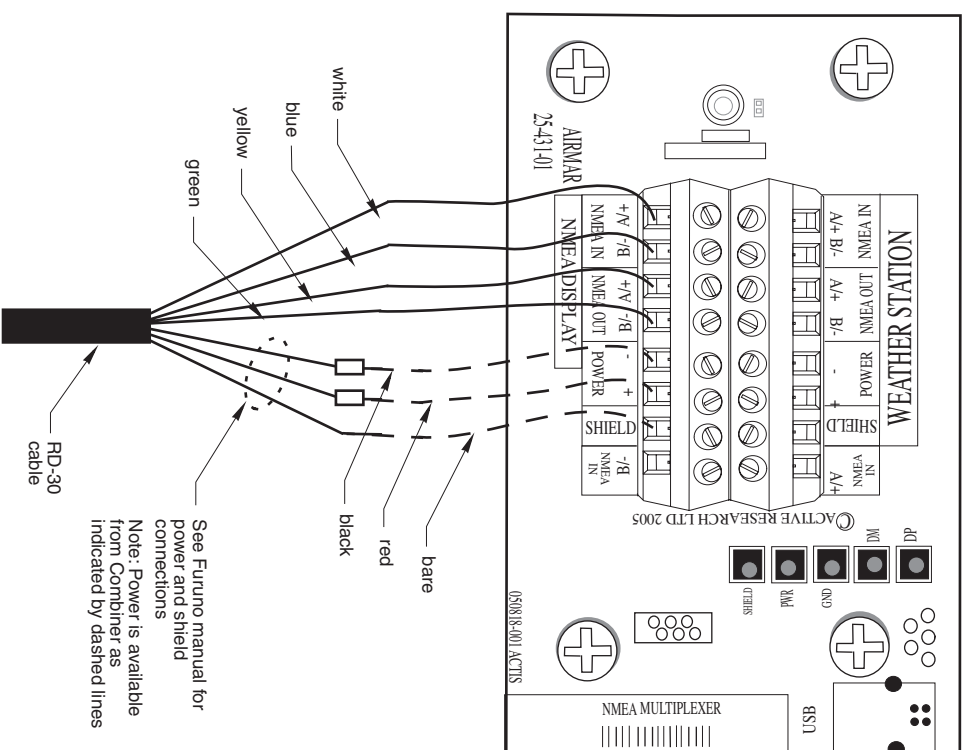
Copyright © 2006 Airmar Technology Corp.

Connecting an RD-30 Display to an Airmar Combiner

Generally follow the instructions in the WeatherStation Owner's Guide,

"Connecting to a Combiner", "NMEA Display/Additional Sensor Cable". However, to connect a Furuno RD-30 to the Combiner, substitute Figure C below for Figure 10 in the main owner's guide.

Note: Figure C replaces Figure 10 in your WeatherStation Owner's Guide.



See Furuno manual for power and shield connections
 Note: Power is available from Combiner as indicated by dashed lines

Figure C. Wiring the RD-30 to the Combiner

Copyright © 2006 Airmar Technology Corp.