

EFIS Horizon XM Weather Receiver Connector Definitions

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Rev A

Grand Rapids Technologies, Inc.

Revision History

Rev A – First version.

Connector A Description

Mating Connector: 9-pin Female D-sub (Weather Receiver has 9-pin Male D-sub)

Pin	Function
1	Power GND *(1)
2	Power GND *(1)
3	RS323 INPUT 115.2K BAUD
4	Power +12V *(2)
5	Power +12V *(2)
6	RS232 OUTPUT 1 *(3) 115.2K BAUD
7	RS232 OUTPUT 2 *(3) 115.2K BAUD
8	Power GND *(1)
9	Power GND *(1)

*(1) NOTE: Only one GND is required.

*(2) NOTE: Only one +12V required (they are electrically tied together), maximum current draw is 1 amp.

*(3) NOTE: Each output can be connected to a maximum of 2 displays.

MFD CONNECTIONS AND CONSIDERATIONS

Only serial 1 and serial 2 are capable of handling the weather interface. Serial 1 is only available for the weather if the MFD does not have an expansion module (Internal GPS or ARINC-429).

The Weather is not transmitted through the inter-display link. The output from the weather must be connected to each display. Only one display will be connected to the weather's RS232 input, and the inter-display link is used.

If serial 1 on the MFD is not available then serial 2 must be used. This is normally connected to the AHRS. The AHRS must be moved to another available serial connection.