

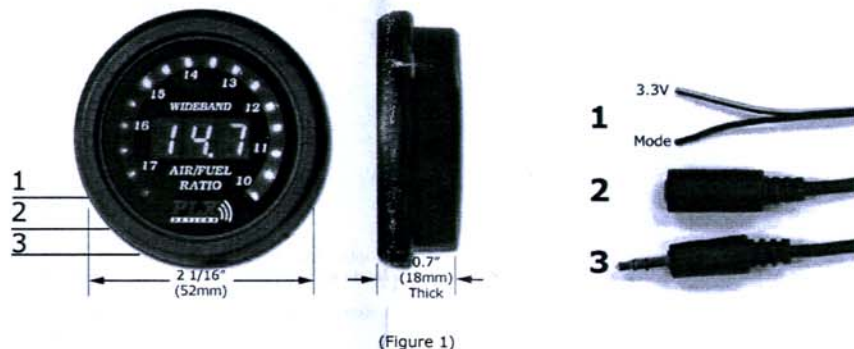


iMFD Display Module DM-5 AFR

Version 1.0 September 21, 2006

***Please read the instructions completely through at least once before proceeding with the installation to minimize errors.**

Overview:

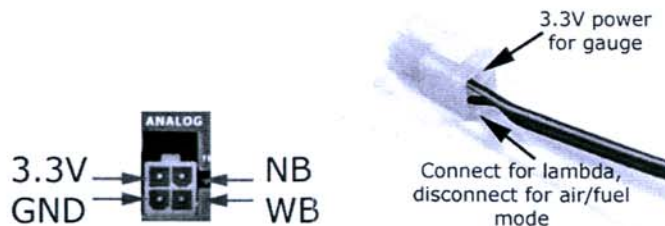


(Figure 1)

Three sets of wires come out of the DM-5 AFR.

1. A pair of wires (black, and black with a white stripe)
 - a. Black connects to ground for lambda reading, or left unconnected for gasoline (14.7) reading
 - b. Black/White Stripe connects to 3.3V power source on SM-AFR module
2. Female 3.5mm plug used for IMFD serial TX (Transmit)
3. Male 3.5mm plug used for IMFD serial RX (Receive)

Connecting Power:



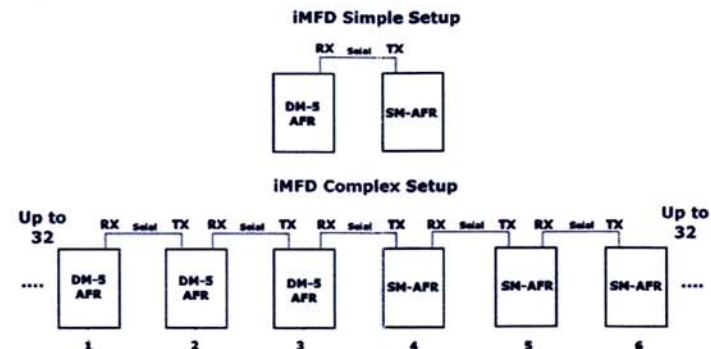
1. Use the included 4 pin connector and terminal to connect the Black/White Stripe wire to the "3.3V" location on your SM-AFR module. Solder or crimp the wire to the terminal to ensure good electrical continuity.
2. No connection to ground is necessary. Ground is automatically connected through the iMFD RX and TX connectors.
3. Power on the SM-AFR module and check if the DM-5 AFR lights up.

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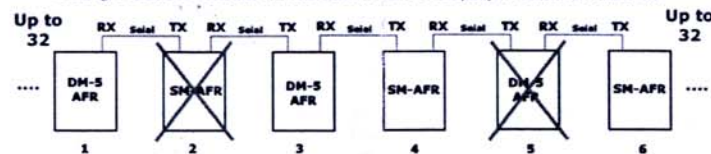
Using the Sensor Module in the iMFD Chain:



There are two recommended uses for the DM-5.

1. The simple setup connects to just one SM module. This is great for stand alone gauges. Connect the Male RX iMFD serial connector to the TX of the SM-AFR module
2. The complex setup is great for monitoring several SM modules simultaneously. Looking at the above diagram, the DM-5 AFR labeled (1) automatically displays the information from SM-AFR labeled (4). The DM-5 AFR labeled (2) automatically displays the information from SM-AFR labeled (5). The DM-5 AFR labeled (3) automatically displays the information from SM-AFR labeled (6) and so on.... The DM-5 automatically "knows" where to look for the information with respect to where it is connected in the iMFD chain.

This setup is incorrect and violates the iMFD daisy chain rules. Placing a Display Module upstream from a Sensor Module is incorrect. Placing a Sensor Module downstream from a Display Module is incorrect



Setting the Gauge Mode:

The DM-5 AFR gauge has two modes of operation. Lambda or Air/Fuel Ratio (gasoline 14.7) can be displayed on the center 3 digit digital display.

1. Lambda
 - a. Connect the solid black wire to ground for lambda mode. Ground is available on the SM-AFR.
2. Air/Fuel Ratio (Gasoline 14.7)
 - a. Leave the solid black wire unconnected for air/fuel ratio mode.

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