

# Setting up the DM-6 Multi Gauge to the SM-AFR

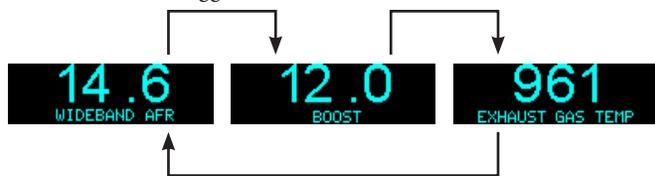


## Navigating the DM-6

There are a total of 3 capacitive touch buttons on the DM-6. They are highlighted in the image below.

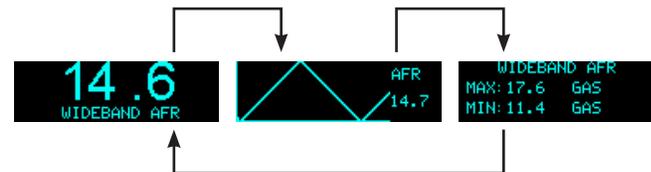


Use the left button to toggle between sensors.\*



\* - Sensors available are based on Sensor Modules in daisy chain. Display order is based on location of the Sensor Module in the daisy chain

Use the right button to toggle between Numeric, Graph, and Peak/Hold screen views.



Hold the logo button to display unit label and range. Left and right values refer to entire LED sweep range.

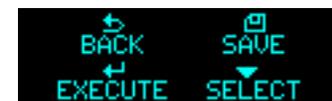


In the Peak/Hold view, holding the right button will open a menu option to save or reset current/all peak/hold values.



## The Menu

Pressing and holding both left and right buttons together will take you into the menu system. Once inside the menu system, use the left button to save changes, the logo button to select which menu item is currently selected, and the right button to access the current selection option. Please note the icons used.



## Setup Unit

To setup the unit for a particular sensor, follow the procedures listed below:

1. Hold both left and right button to get into the "SETUP MENU".
2. Press the right button to get into "SETUP UNIT" screen.
3. To change the sensor, press the right button.
4. To change the unit for that particular sensor, press the logo button to move down the arrow.
5. Press the right button to change the unit.
6. Press the left button to save and go back to the "SETUP MENU" screen.



## Warnings:

The DM-6 can be operated to trigger the warning by setting the limit of the parameters (Parameter 1(P1) and Parameter 2(P2)). Sensors that are daisy-chained with the DM-6 can be selected to associate with the parameter setting. The DM-6 is capable of monitoring up to 2 parameters for warnings. To trigger the warning, the reading of the DM-6 must go above or below the parameter setting as determined by the user. The table below shows the 4 schemes that are supported by DM-6.

Mode	Description
P1 and P2	Warning triggers only when the reading falls within the range set by both Parameter 1 <b>and</b> Parameter 2
P1 or P2	Warning triggers only when the reading falls within the range set by Parameter 1 <b>or</b> Parameter 2
P1 Only	Warning triggers when the reading falls within the range set by <b>Parameter 1 only</b>
P2 Only	Warning triggers when the reading falls within the range set by <b>Parameter 2 only</b>

Example:

Trigger point settings (SET P1 or SET P2)	DM-6 Reading	Result
Parameter 1: AFR > + 15.0	AFR = 14.0	FALSE
Parameter 2: EGT > + 800	EGT = 900	TRUE

If the DM-6 measures the above values and the "SCHEME" is set to "P1 OR P2", this means that if Parameter 1 is TRUE OR Parameter 2 is TRUE, the warning will trigger. Since EGT is set in Parameter 2 and the measured value exceeds the trigger point set for this particular sensor, the warning will trigger as soon as the measured value exceeds 800.

The LEDs will be flashing, indicating that the warning has been triggered. DM-6 will also display the particular sensor that triggers the warning in the numerical mode.

If mode P1 AND P2 is selected, as the warning triggers, you can press the left button to view the two sensors that trigger the warning.

To trigger the warning, first set the "SCHEME":

1. In the "SETUP MENU", choose "WARNING" by pressing the logo button.
2. Press the right button to get into the "WARNING" screen.
3. To change the "SCHEME", press the right button. Refer to the above table for the description for each "SCHEME".
4. Press the left button to save and return to the "SETUP MENU" screen.



## SET P1/SET P2:

1. In the "SETUP MENU", choose "SET P1 or SET P2" by pressing the logo button.
2. Press the right button to get into the "SET P1 or SET P2" screen.
3. To select the sensor as the warning sensor, press the right button.
4. To set the trigger value, press the logo button to move down the arrow.
5. Press the right button to change the highlighted character.
6. To highlight the next character, hold on to the right button for 3 seconds.
7. Press the left button to save and return to the "SETUP MENU" screen.
8. If the limit is invalid, the "LIMIT EXCEED RANGE" screen will show to indicate the proper range of values to be set.
9. Press the right button to re-enter the parameter or press the left button to go back to the "SETUP MENU" screen.



### Included Items:

1. DM-6 2 1/16" (52 mm) Gauge
2. 4 Pin connector for SM-AFR connectivity
3. 2 Terminals for 4 pin Connector
4. 3.5 mm Y Splitter
5. 6" M/F Extension Serial Cable
6. User guide

### Specifications:

Physical Dimensions:	Standard 2 1/16 x 0.7" (52 X 18 mm)
Display Technology:	1.10" OLED Screen (124 x 36 pixels), LED (16 Green, Yellow, Red)
Viewing Angle:	180 Degrees
Polarization:	None
Supply Voltage:	3.3 V and 8 V from SM Module
Power Consumption:	< 1 Watt
Cable Length:	6' Power, 6" Serial
Operating Temp:	0 - 85 Degrees Celsius
Human Interface:	3 Button Capacitive Touch
Number of Sensors:	16 Maximum Daisy Chain
Supported Units:	US Standard, Metric

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