

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

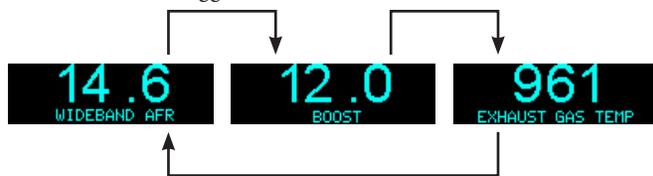


Navigating the DM-6

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

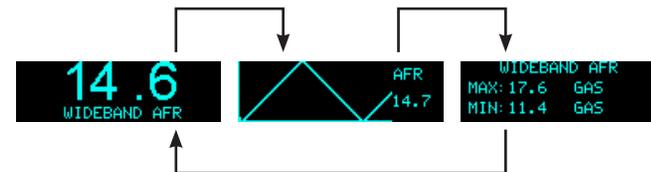


Use the left button to toggle between sensors.*



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

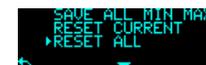
Use the right button to toggle between Numeric, Graph, and Peak/Hold screen views.



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

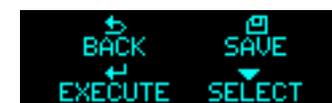


In the Peak/Hold view, holding the right button will open a menu option to save or reset current/all peak/hold values.



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 and Parameter 2
P1 or P2	Warning triggers only when the reading falls within the range set by Parameter 1 or Parameter 2
P1 Only	Warning triggers when the reading falls within the range set by Parameter 1 only
P2 Only	Warning triggers when the reading falls within the range set by Parameter 2 only

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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PLX Devices Inc. does not guarantee product functionality with any ECU, data logger or other devices that uses the output signals. Implementation and integration of the PLX products with any other device(s) must be done at your own risk. Improper installation and usage may lead to engine damage. Mount and install PLX products in a location where it does not obstruct the driver's view and/or ability or safely control the vehicle.

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LIMITED WARRANTY

PLX Devices Inc. warrants this product to be free from defects for 1 year from the date of purchase. If applicable, Oxygen sensors and other non-serviceable items are excluded from stated warranty. Serviceable goods must be determined by PLX Devices to be defective before any warranty or replacement is issued. PLX Devices' obligation under warranty shall be limited to repairing or replacing, under the discretion of PLX Devices, any part proven defective. This warranty is limited to the repair or replacement of parts in the manufactured good and the necessary labor done to affect its repair or replacement.

SERVICE UNDER WARRANTY

In the unlikely event that your PLX Devices hardware should fail during the warranty period, a Return Material Authorization number (RMA) must be first retrieved from PLX Devices Customer Support. Support can be contacted through e-mail: rma@plxdevices.com or by phone: 408-745-7591. All serviceable goods must be packaged securely with proof of purchase, RMA number, with all shipping charges prepaid and shipped to PLX Devices Inc. Goods returned under warranty must be received by PLX Devices Inc. within ten (10) business days after the RMA number has been issued. Goods received after this period are subject to fees for the service of repair or replacement. All repaired or replaced items shall be warranted for the remainder of the original product warranty.

RETURNS AND RESTOCKING FEE

All returns must be within 30 days of receipt. A 15% restocking fee will apply to applicable PLX Devices products for refund. All returns are to be packed in original condition including packaging, documentation, manuals, and accessories. Returns that do not include all the accessories and components may be returned to the customer or charged on a per item basis. The customer assumes responsibility for product until receipt at PLX Devices Inc., shipping via an insurable carrier is recommended. Any unauthorized shipping charges will be billed to the customer or shipment will be refused.

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