



I-Meter S120

DIGITAL MULTIPLE INDICATOR FOR SUZUKI VITARA 2015

Thank you for choosing a PZR product. I-meter is a state-of-the-art time, tilt, and voltage indicator featuring a high-brightness color TFT IPS touchscreen display that allows for the individual or simultaneous viewing of the following values:

- TIME
- TILT (Roll - Pitch)
- BATTERY VOLTAGE

Additionally, thanks to the GPS1, OBD1, TPMS1, and BOX1 accessories (sold separately), it is also possible to monitor:

GPS1 MODULE (values detected by the GPS antenna):

- GPS SPEED
- COMPASS
- ALTITUDE
- DISTANCE TRAVELED
- ENGINE HOUR METER
- GPS COORDINATES

OBD1 Module (values read from the diagnostic port of a vehicle equipped with OBDII CAN BUS):

- ENGINE SPEED (RPM)
- SPEED
- ENGINE TEMPERATURE (ECT)
- THROTTLE POSITION (TPS)
- INTAKE AIR TEMPERATURE (IAT)
- MASS AIR FLOW (MAF)

TPMS1 Module (values detected by sensors installed on the tires):

- TIRE PRESSURE
- TIRE TEMPERATURE

BOX1 MODULE (values recorded by installed sensors):

- LAMBDA (10 - 20 AFR; Narrowband Lambda sensor Code LAMNB, or Lambda 4.9 sensor + interface Code LAM49; use of a Lambda 4.9 sensor is recommended)
- OIL PRESSURE (0 - 10 Bar; Oil pressure sensor Code POIL1)
- TURBO (-1 / 3 Bar; Turbo sensor Code TURB1)
- EXHAUST GAS TEMPERATURE EGT (0 - 1000 °C; K-type thermocouple + interface Code KEGT1)
- OIL TEMPERATURE (0 - 150 °C; Temperature sensor Code TEMP1)
- THROTTLE POSITION (TPS)
- ENGINE TEMPERATURE ECT (0 - 150 °C; Temperature sensor Code TEMP1)
- ENGINE SPEED (RPM)

Technical specifications:

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| <ul style="list-style-type: none"> • Power supply: 7 to 32 Volts • Power consumption: less than 100mA • 240x240 TFT IPS display (65K colors) • Capacitive touch screen • Dual-core 32-bit 240MHz processor | <ul style="list-style-type: none"> • +/-90-degree inclinometer with +/-1° accuracy • 6-26 Volt voltmeter, 0.1 V resolution • Units of measurement: °C/°F – km/h/MPH – bar/psi/kPa • Dimensions: 52 mm diameter x 17 mm |
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The inclinometer screen is created by displaying the side and rear profiles of your vehicle in the desired color.

1) INSTALLATION

1.1) MECHANICAL INSTALLATION



PHOTO 1



PHOTO 2



PHOTO 3

-The I-meter unit must be installed to replace the vehicle's original clock (PHOTO 1).

-Remove the original clock using the supplied suction cup (PHOTO 2).

-Carefully unclip the chrome plastic bezel surrounding the clock and fit it onto the I-meter (PHOTO 3).

-Connect the RED wire to a switched 12V positive source and the BLACK wire to a ground point. Since there is no switched positive in the original clock connector, it is recommended to connect to the car radio wiring.



PHOTO 4



PHOTO 5



PHOTO 6

-Remove the decorative trim strip running between the car radio and the dashboard by prying along its length with a trim removal tool or a flat-head screwdriver, taking care not to damage the vehicle's plastic (PHOTO 4).

-Remove the two upper side screws securing the car radio (PHOTO 5).

- Pull out the car radio and disconnect all connectors attached to the rear.
- Route the two I-meter wires from the original clock opening to the car radio and connect the RED and BLACK I-meter wires to the LIGHT BLUE/WHITE and BLACK wires, respectively, located in the 16-pin light blue connector (PHOTO 6).
- Turn on the ignition and verify that the product is working correctly.
- Reassemble.

-Insert the I-meter into the original clock housing.

1.2) INSTALLATION OF GPS1, OBD1, TPMS1, and BOX1 interfaces (sold separately)

For the connections of the various interfaces, follow the attached diagram.

2) VIEWING:

Upon startup, the screen displayed before the device was turned off will appear.

To switch between screens, simply swipe your finger across the display from right to left or vice versa.

2.1) "TIME" SCREEN

On the "TIME" screen, you can choose to display the voltage reading by briefly pressing the display; you can also select from three dial styles:

- ANALOG DIAL WITH RETRO-STYLE YELLOW BACKGROUND
- ANALOG DIAL WITH MODERN-STYLE WHITE BACKGROUND
- DIGITAL DISPLAY (this screen also shows the date)

To select the desired dial, simply swipe your finger up or down across the display.

2.2) "TILT" SCREEN

The "INCLINATION" screen displays two outlines of your vehicle—in your chosen color and showing the current tilt—with the side view (Pitch) on the left and the rear view (Roll) on the right; the Pitch and Roll values are also displayed numerically in a box above the corresponding outline.

2.3) "TPMS" (Tire Pressure Monitoring System) screen, if the TPMS1 interface is connected:

The "TPMS" screen displays data on pressure, temperature, battery level, and received signal strength for each sensor, arranged in a layout divided into four segments that indicate the position of each tire's sensor.

2.4) REMAINING SCREENS

You can choose from three dial types:

- Analog dial with black background
- Analog dial with white background
- Digital dial

To select the desired dial, simply swipe your finger up or down on the display.

3) CONFIGURATION

To access the settings menu, press and hold the display until it turns completely black; upon release, four icons for the respective settings will appear. However, from the "SPEED GPS" screen, an intermediate screen will appear first, allowing you to choose whether to reset the distance traveled and the hour meter or enter the menu.

3.1) SETUP:

- Press the "PENCIL/WRENCH" icon.
- The settings for the backlight level and measurement units will appear: temperature (°C / °F), speed (km/h / MPH), and pressure (Bar / PSI / kPa).
- Select your preferred backlight level or measurement units.
- Press "Exit".

3.2) SCREEN SETUP

- Press the "GAUGE" icon.
- The settings for the various screens available on the device will appear.
- To scroll through the various screens, swipe your finger across the display from right to left or vice versa.
- To enable or disable a screen, tap its icon; a red X will appear over the screen if it is disabled, otherwise it will be enabled.
- The settings available for the selected screen will be displayed on the right:

3.2.1) CLOCK SCREEN SETUP

- Press the "Adjust" button.
- The HOUR setting will appear; select the correct hour using the + and - buttons and press "Next".
- The MINUTE setting will appear; select the correct minutes using the + and - buttons and press "Next".
- The DAY setting will appear; select the correct day using the + and - buttons and press "Next".
- The MONTH setting will appear; select the correct month using the + and - buttons and press "Next".
- The YEAR setting will appear; select the correct year using the + and - buttons and press "Next".
- To exit the time configuration, simply press "Exit" at any time.

3.2.2) INCLINOMETER SCREEN SETUP

- To calibrate the inclinometer, position the vehicle on level ground and press the "Calibrate" button; the device will prompt you to wait a few seconds before returning to the main screen. Do not move or rock the vehicle during this process; the device will calibrate itself to ensure accurate tilt measurement.
- To select the vehicle type and color, press "Car".
- The display will show the outline of the selected vehicle. To change the color, simply swipe your finger across the display from right to left (or vice versa); to change the vehicle type (Sedan – Hatchback – Pickup – Jeep), swipe your finger up or down (or vice versa) on the display. Note: If a custom vehicle has been loaded (see Chapter 4), only the color can be changed.
- Once the desired color is selected, press "OK".

3.2.3) LAMBDA SCREEN SETUP

- Press the "Angle" button to set the angular span of the gauge dial on the corresponding screen; press "+" to increase it and "-" to decrease it, then press "Exit" to leave the menu.
- Press the "Sensor" button to configure the type of lambda sensor installed: select "NARROWBAND LAMBDA SENSOR" for a narrowband lambda sensor (low precision), or select "4.9 WIDEBAND LAMBDA SENSOR" for a 4.9 wideband lambda sensor (high precision).

3.2.4) SETUP OF THE REMAINING SCREENS

- Press the "Angle" button to set the angular span of the dial; press "+" to increase it and "-" to decrease it; press "Exit" to exit.
- Press the "Minimum" button to set the minimum value for the dial; press "+" to increase it and "-" to decrease it; press "Exit" to exit.
- Press the "Maximum" button to set the maximum value for the dial; press "+" to increase it and "-" to decrease it; press "Exit" to exit.
- Press the "Limit 1" button to set the lower limit of the dial's red zone; press "+" to increase it and "-" to decrease it; press "Exit" to exit.
- Press the "Limit 2" button to set the upper limit of the dial's red zone; press "+" to increase it and "-" to decrease it; press "Exit" to exit.

3.3) LANGUAGE SELECTION

- Press the "GLOBE" icon.
- The flag of the country corresponding to the language will appear on the display; to change the language, simply swipe your finger across the screen from right to left or vice versa.
- Once you have selected the desired language, press "EXIT".

3.4) EXIT SETTINGS MENU

- Press the "EXIT" icon to return to the main screens.