



I-Meter HY500

DIGITAL MULTIPLE INDICATOR FOR HYUNDAI GALLOPER 1991-2003

Thank you for choosing a PZR product. The I-meterHYI500 is a set of three latest-generation gauges to replace the center console of your Hyundai Galloper. It has three high-brightness TFT IPS color touchscreen displays that allow you to view the following values:

- TIME
- TILT (Roll - Pitch)
- BATTERY VOLTAGE
- GPS SPEED
- COMPASS
- ALTITUDE
- DISTANCE TRAVELED
- ENGINE HOUR METER
- GPS COORDINATES

Furthermore, thanks to the TPMS1 and BOX1 accessories (sold separately) it is also possible to detect:

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

- TIRE PRESSURE
- TIRE TEMPERATURE

BOX1 MODULE (values detected by installed sensors):

- LAMBDA (10 - 20 AFR S. Lambda Narrowband Cod. LAMNB, S. Lambda 4.9 Wideband + interface Cod. LAM49, we recommend using a 4.9 Lambda probe)
- OIL PRESSURE (0 - 10 Bar OIL pressure sensor Cod. POIL1)
- TURBO (-1 / 3 Bar Turbo sensor Cod. TURB1)
- EXHAUST GAS TEMPERATURE EGT (0 – 1000 °C K thermocouple + interface Cod. KEGT1)
- OIL TEMPERATURE (0 – 150 °C temperature sensor TEMP1)
- THROTTLE OPEN (TPS)
- ENGINE TEMPERATURE (0 – 150 °C temperature sensor TEMP1)
- ENGINE SPEED (RPM)

Technical features:

- Power supply from 7 to 30 Volts
- IPS TFT display 360x360 65K colors
- 32-bit dual-core processor 240MHz
- Voltmeter 6/26 Volts, 1/10 Volt resolution
- Dimensions: 52mm diameter X 17mm
- Consumption less than 100 mA
- Capacitive touch screen
- Inclinator +/-90 degrees with +/-1° accuracy
- Units of measurement: °C/°F – Kmh/MPH – Bar/Psi/Kpa

1) INSTALLATION

1.1) MECHANICAL INSTALLATION



PHOTO 1



PHOTO 2

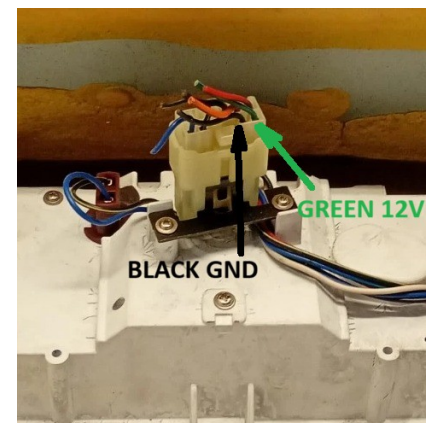


PHOTO 3

- The I-Meter must be installed in place of the original inclinometer/altimeter unit. (PHOTO 1)
- Unscrew the two side screws of the dome above the console and remove it (PHOTO 2).
- Unscrew the three screws holding the original console to the base.
- Remove the console and unplug the connector located behind the console.
- Connect the two RED (12V key-operated) and BLACK (GROUND) cables to the GREEN and BLACK wires respectively using the two supplied "circuit breaker points" (PHOTO 3).
- Tighten the three original screws to secure the I-meter to the dashboard.
- Reinstall the dome removed previously.

1.2) TPMS1-BOX1 INTERFACE INSTALLATION (sold separately)

To connect the various interfaces, follow the attached diagram.

2) VIEWING:

When you turn it on, the last screen you were on before you turned it off will be displayed.

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

2.1) "TIME" SCREEN

On the "TIME" screen, you can select whether to add the voltage value by briefly pressing the display. You can also choose the dial type from three models:

-HAND-TUNED DIAL WITH YELLOW BACKGROUND (RETRO STYLE)

PHOTO 9

-HAND-TUNED DIAL WITH WHITE BACKGROUND (MODERN STYLE)

-DIGITAL DIAL (this screen also displays the date)

To select the desired dial, simply swipe your finger from top to bottom or vice versa on the display.

2.2) "TILT" SCREEN

In the "TILT" screen, two silhouettes of your car will be displayed in the color you set and with the relative current inclination, on the left the lateral silhouette (Pitch) and on the right the rear silhouette (Roll), the Pitch and Roll values will also be displayed numerically in a box above the relative silhouette.

2.3) "TPMS" (TYRE PRESSURE MONITORING SYSTEM) SCREEN if TPMS1 interface is connected:

The "TPMS" screen will display the pressure, temperature, battery level and signal strength data received from each sensor in a screen divided into "4 sections" defining the position of the sensor for each tire.e di ogni pneumatico.

2.4) "COMPASS" SCREEN if GPS1 interface is connected:

The "COMPASS" screen will display direction, altitude, and GPS coordinates

2.5) REMAINING SCREENS

You can choose the dial type from three models:

-HAND DIAL WITH BLACK BACKGROUND

-HAND DIAL WITH WHITE BACKGROUND

-DIGITAL DIAL

To select the desired dial, simply swipe your finger from top to bottom or vice versa on the display.

3) CONFIGURATION

To enter the settings menu, hold down the display until it goes completely black. When you release it, four icons for the relevant settings will appear, only in the "SPEED GPS" screen an intermediate screen will be displayed where you can choose whether to reset the distance traveled and the hour meter or enter the menu.

3.1) SETUP:

- Press the "PENCIL/KEY" icon.

-You will be able to set the backlight level and the temperature units (°C/°F), speed (km/h/mph), and pressure (bar/psi/kPa).

-Select your preferred backlight level or units of measurement.

- 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 from right to left or vice versa on the display.

- To enable or disable the screen, tap the screen icon. A red X will appear above the screen if it is disabled, otherwise it will be enabled.

- The various settings available for the corresponding screen will be displayed on the right side:

3.2.1) CLOCK SCREEN SETUP

-Press the "Set" button.

-The HOURS setting will appear; select the correct hours using the + and - buttons and press "Next."

-The MINUTES 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 setting, simply press "Exit" at any time.

3.2.2) INCLINOMETER SCREEN SETUP

-To calibrate the inclinometer, place 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. During this time, do not move or sway the vehicle; the device will calibrate itself to allow for accurate tilt measurement.

-To select the vehicle color, press "Auto."

-The vehicle's outline will appear on the display. To change the color, simply swipe your finger from right to left or vice versa.

-Once you've selected the desired color, press "OK."

3.2.3) LAMBDA SCREEN SETUP

-Press the "Angle" button to set the angular aperture of the needle dial on the corresponding screen. Press "+" to increase it and "-" to decrease it. Press Exit to exit.

-Press the "Sensor" button to set the type of lambda sensor installed. Select "NARROWBAND LAMBDA SENSOR" for a narrowband lambda sensor (not very accurate), or "4.9 WIDEBAND LAMBDA SENSOR" for a wideband lambda sensor (very accurate).

3.2.4) SETUP OF THE REMAINING SCREENS

-Press the "Angle" button to set the angle of the needle dial. Press "+" to increase it and "-" to decrease it. Press Exit to exit.

-Press the "Minimum" button to set the minimum value on the needle dial. Press "+" to increase it and "-" to decrease it. Press Exit to exit.

-Press the "Maximum" button to set the maximum value on the needle 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 red band on the needle dial. Press "+" to increase it and "-" to decrease it. Press Exit to exit.

-Press the "Limit 2" button to set the upper limit of the red band on the needle dial. Press "+" to increase it and "-" to decrease it. Press Exit to exit.

3.3) LANGUAGE CHOICE

-Press the "WORLD" icon

-The national flag of the corresponding language will appear on the display to change, simply swipe your finger from right to left or vice versa on the display.

-Once you have selected the desired language, press "EXIT".

3.4) EXIT SETTINGS MENU

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