

ACCUTIRE MONITOR™

Congratulations on your purchase of our tire pressure monitoring system.

This product allows you to review the tire pressure of your motorcycle's tires while it is parked in your garage before getting ready to ride.

You simply program the Digital Caps to the recommended tire pressure and screw them onto the tires. Each time before riding, you can check the monitor to see if your tires are at the recommended pressure. If a tire is low, the monitor will indicate that you need air.

It is important that you read and understand how the Accutire Monitoring system works. Please read the following instructions before you attempt to install and use this device.

How it works:

Specification and Instructions

ACCUTIRE MONITOR™

"WIRELESS" RF DIGITAL TPMS (Tire Pressure Monitoring System) for Motorcycles

SPECIFICATIONS:

Measuring Range: 5 ~120PSI

Accuracy:

Valve Cap ± 2 PSI:

Resolution: 0.1PSI

Power:

Valve Cap: One 3V CR1632 Lithium button cell

Display Monitor Unit: Power adapter with nominal voltage 9V

Unit contents

Unit consists of Display Monitor Unit, 2 valve caps, power adaptor, cap wrench, wheel counter weights with adhesive and a mounting screw.



Fig.1

INSTALLATION

Valve caps

Valve caps come with a battery insulation tab to protect the power during storage. Open the back of each valve cap using the spanner "cap wrench"

tool provided and remove the battery insulator and replace the button cell observing the polarity. Always insert the button cell into valve cap keeping the positive polarity mark and the battery type marking facing towards you. Refer to the graphical display of how to replace the battery in fig.2a and 2b.

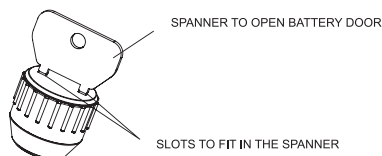


Fig.2a

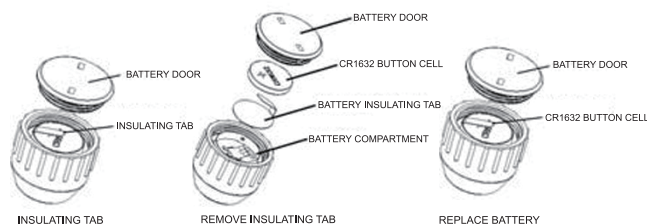


Fig.2b

Valve cap installation on the tire

Remove the dust cap on the valve stem of your tire and install the valve caps as described in Fig.2c. Make sure the caps are being securely fastened on the stem and there is no leaking of air.

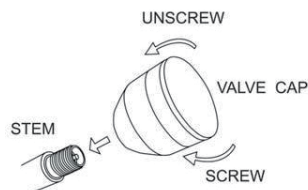


Fig.2c

Once the valve cap is installed a basic wheel balancing could be necessary. Your TPMS comes with a strip of 2pcs Weight chips. Cut off one piece, select a flat inside surface of the wheel rim opposite to the Valve Cap to paste the Weight chip on it. Before pasting the Weight chip on the wheel rim ensure the surface of the rim is clean and dry. Peel of Weight chip backing to expose adhesive and attach chip to the rim. After installing the valve caps and the weight chips on both wheels you can enjoy the use of our TPMS.

Display Monitor Unit

Using wall bracket attach the Display Monitor Unit to the wall.



Fig.3

Display Monitor Unit description

The Display Monitor Unit has 5 buttons:

LIMITS	To see the front and rear pressure threshold setting
REG	To register the caps with the Display Monitor Unit (look for the switch at the back of Display Monitor Unit)
SET	To set Goals and set limits and units.
▲	Increase the values while in set mode or continue on to next tire in the register mode.
▼	Decrease the values while in set mode or continue on to next tire in the register mode.

COLOR SEGEMENT DISPLAY

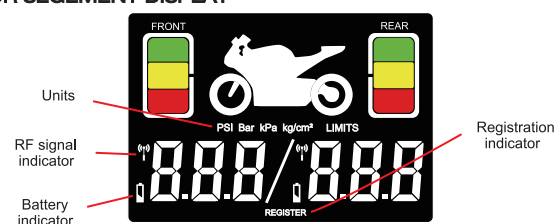


Fig.4

RED – shows the tire pressure is too low. The low pressure is at least 20% below threshold. The high tire pressure is at least over 20% of threshold.

YELLOW – shows the tire pressure is between -10% and -20% of the threshold.

GREEN – shows the tire pressure is normal, between -10% and +20% of the threshold.

BUZZER ALARM:

Different BEEP alarms are used for warnings:

- One BEEP every 4 seconds:
 - Sudden drop in pressure.
 - Pressure less than 80% or over 120%.
 - Did not receive data from valve cap for more than 2 hours.
- Two BEEPS every 4 seconds:
 - No data received from a valve cap for the last 5 hours.

Press any key while the alarm is beeping - the alarm will stop immediately

Operation instructions

- Plug in Display Monitor Unit
- Full segment LCD will appear for about 2 second and will enter the default initial display mode

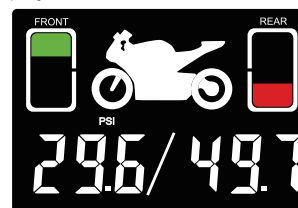


Fig.5

- Since there is no RF data transmitted yet, the display will show as above and the default threshold will be 30PSI.
- The Unit is now ready for setting pressure units and pressure targets
- Press and hold the **[SET]** key for 2 seconds and the Display Monitor Units will start blinking. Initially it will show PSI blinking and you can use the **▲** and **▼** keys to select the desired Display Monitor Units.



Fig.6

- After setting the Display Monitor Units, press the **[SET]** key once to enter the limits setting mode. In this mode, first the front tire LCD of the motorcycle icon and the front tire data will blink and user can set the front tire threshold. Use the **▲** and **▼** keys to select the desired value for the front tire.

NOTE: if you press and hold the "UP" or "DOWN" button it is possible to increase or decrease the limits quickly.

- After setting the front tire data threshold press the **[SET]** key once again to enter the rear tire threshold setting. At this time the rear tire MOTORCYCLE LCD icon and rear tire data on the LCD will blink. Use the **[▲]** and **[▼]** keys to select the desired value for the rear tire.

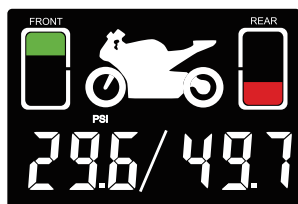


Fig.7

- After setting both tire pressure limits press the **[SET]** key once to enter the normal display mode.
- If there is no signal received during the tire pressure limit setting, the display will show as follows.

Note: Tower symbols are off

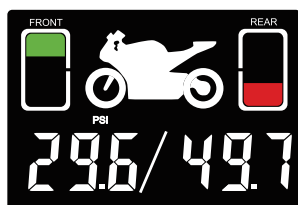


Fig.8

USE of **[LIMITS]** Key:

- In the normal display mode, press the "limits" key display to show the front and rear tire thresholds.

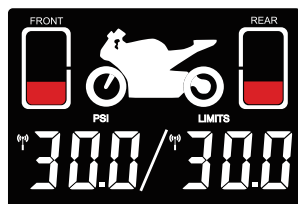


Fig.9

- The Unit will return to normal operation after 5 seconds or by pressing the **[LIMITS]** key.

Registering a valve cap with the Display Monitor Unit:

This TPMS comes with all valve caps pre-registered to the Display Monitor Unit. Each valve cap is marked Front and Rear. If you install the valve caps in the correct order then you can skip the registration process. Each valve cap has its unique ID number. To allow the caps to function correctly, each valve cap should register itself with Display Monitor Unit. To register your valve caps follow the steps below.

- Remove all batteries from the valve caps. (see above)
- Press the Register button.
- Check if the register icon on the Display Monitor is blinking.
- Select the front tire by pressing the UP/DOWN/ keys, then press the SET key. The Register indicator will light up.
- Install the button cell of the valve cap for the front tire and watch the display. Within a few seconds the display will update with pressure 0.0 and then the monitor will switch to the rear valve cap and the registration icon will begin blinking. This shows the valve cap on the front tire has been properly registered.
- If it is not registered properly, remove the button cell from the valve cap and then re-install it.
- Once the front valve cap registers, press the UP button and move to the rear tire; press the SET button. Repeat the same steps used to register the front cap to register the rear cap.
- After both tires caps have been properly registered, press the Register button once again. The Display will return to normal display mode.

Note. Register only one valve cap at a time.

- Once the front and rear valve caps are registered install the valve caps onto their corresponding tires.

Functional Description of RF Valve Cap:

Function Description:

- RF transmit function:
 - Valve Cap sends the data to the TPMS via 433MHz ASK RF modulation.
- Pressure detection:
 - Valve Caps are properly calibrated at factory. The accuracy is less than +/-2 PSI when the temperature is within the range of -25~80 Degree. The pressure setting range is 0~120psi. The Valve Cap detects the pressure in every 30 seconds.
- Frequency of Data Transmission:
 - In two consecutive reading if the difference between the last reading and the current reading is not more than 1PSI then data will be transmitted in 30 minutes intervals. If in two consecutive readings if the valve cap detects a pressure drop of over 1PSI then it will transmit the data within next 30 seconds. This will continue until the valve cap detects the pressure is back to stable.

Low battery detection

Battery power will be automatically checked during a pressure reading. If battery power will be detected as less than 2.2V the valve cap will activate low battery warning.

Valve Cap will send the message to the TPMS Display Monitor unit with the next data transmission. If any valve cap shows Low battery then the low battery icon will blink. You will need to replace the battery in the valve cap. And, it is recommended that both front and rear valve cap batteries be replaced at the same time.

All programmed data is saved on Display monitor unit and it is not necessary to re-program unit.

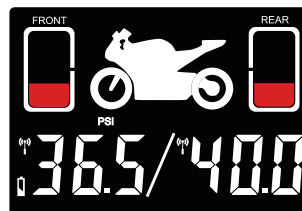


Fig.10

Recommendation:

As the caps may protrude beyond the tire wall please take extra care when parking or driving in order to prevent any damage.

Some wheels may require rebalancing if the user feels that the tires are out of balance.

When rotating tires, the caps must remain in the same location as originally installed for proper signal transmission to the receiver. Please refer to Original Manufacturers Owner's Manual.

Battery Notes:

Replace all batteries of a set at the same time.

Clean the battery contacts and also those of the device prior to battery installation.

Ensure the batteries are installed correctly with regard to polarity (+ and -) Remove batteries from equipment which is not to be used for an extended period of time.

Valve caps cannot submerge in water for longer periods.

HELPFUL HINTS:

Always be sure to follow the tire manufacturers recommended tire pressure ratings which are based on "cool" tire temperatures. This information can be found in the owners manual.

To clean the gauge, use a soft damp cloth.

Do not immerse in, or spray with water or other liquid cleaners.

FCC warnings:

This device complies with Part15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation"

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the Display Monitor Unit.

Increase the separation between the equipment and receiver.

Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications not expressly approved by the manufacturer of this product and the party responsible for compliance could void the user's authority to operate the equipment.

Warranty and service

Measurement Ltd, Inc. ("MLI"), warrants for a period of one (1) year from date of purchase that the product will perform substantially in accordance with its written specifications. MLI does not warrant that the product will meet the specific needs of purchaser or that the product will be fit for use on all vehicles, and purchaser shall be responsible for determining whether the product is appropriate for purchaser's desired application or vehicle. Other than the foregoing express warranty, MLI makes no other warranty with respect to the product or the results that may be obtained from the use of the product, and MLI hereby disclaims all other warranties, including the implied warranties of fitness and merchantability. In the event of a breach of the foregoing warranty, purchaser's sole remedy will be a full refund of the purchase price paid. Under no circumstances shall MLI be liable to purchaser for any incidental, indirect or special damages resulting from the use of the product including, without limitation, for any damage to purchaser's vehicle. Some states do not allow the limitation or exclusion of implied warranties, so the above limitation or exclusion may not apply.

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