

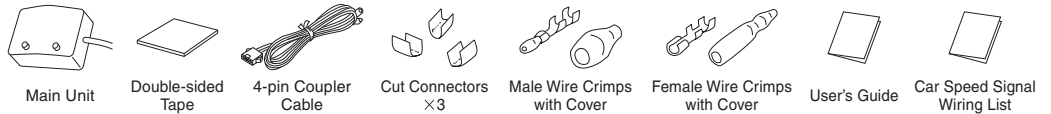
Multi-function Speed Meter **SML-V**

USER'S GUIDE

SPEED METER V ■ Limiter Cut ■ Auto Zero-4 Time ■ G-Power

Thank you for purchasing PIVOT "SML-V". Please read these instructions carefully before installing or using this device. Please do not lose this user's guide, as you will held liable for the cost of reissuing it.

Check the contents



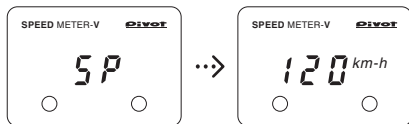
<p>CAUTION Improper use in disregard of this display may result in the injury or death of people.</p>		
<p>Do not work in areas where there is excessive exhaust Due to vehicle exhaust emission poisoning or fire may result in a damage to humans.</p>	<p>During installation be sure to remove the ⊖ cable from the battery So as to prevent fire and damage resulting from the shorting of circuits, etc...</p>	<p>Do not crush the cable Please be careful that the cable does not get crushed by the seat rail or car door steel plate, nor cut by any sharp steel plate as this may cause a poor connection or an electric short leading to fire or other danger.</p>
<p>Please securely fasten the product to a stable place It is very dangerous if, while in use, the product falls off and interferes with braking</p>	<p>Please be sure to store bundle away all wires with tape, etc... It is very dangerous to pull tangled wires by force or allow tangled wires to interfere with driving.</p>	<p>Do not operate while driving Operating or checking the display during driving may cause an accident; please use with the utmost consideration for safety.</p>

<p>NOTE Improper use in disregard of this display may cause injury to persons, damage the product and / or other things.</p>		
<p>If you are not confident about doing the wiring yourself, please consult your local pro shop or garage When installing this product, we recommend that if technical knowledge becomes necessary please consult a qualified mechanic.</p>	<p>This product is for DC12V cars; installation cannot be carried out on cars with other voltage batteries.</p>	
<p>Do not use electrotap Wiring should be carried out using the attached "cut connector" or by soldering, make sure to securely insulate all wiring parts with insulation tape, and confirm that no wires are sticking out.</p>	<p>Do not, in any manner, process, take apart, or make changes to this product</p>	<p>Do not install the product in any place subject to high temperature or any place where water may be splashed</p>
<p>Do not install the product in a place where it will cause distraction</p>	<p>Just after installation do not exert any strong force on the product When double-sided tape is used for an installation be warned that when hot the tape temporarily loses adhesiveness.</p>	<p>Make sure to replace all screws and parts to their original place</p>

WHAT CAN THE SML-V DO?

1. Speed Display

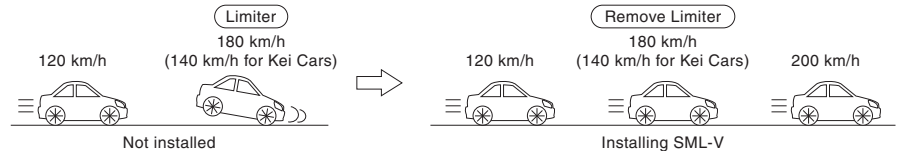
Maximum 350 km/h; Highly Accurate Display in Units of 1 km/h.



2. Speed Limiter Remover Function (Only for use with cars where the speed limiter can be removed)

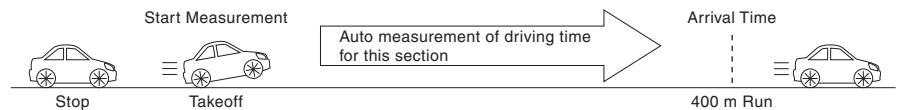
Remove 180 km/h (140 km/h for Kei Cars) Speed Limiter

※ This function is for use only when driving on circuit courses and is not for use on public roads.



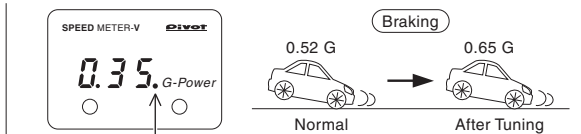
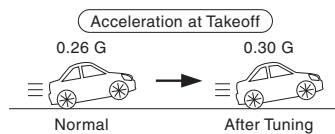
3. Auto Measurement for 0-400 Meters

Auto Measurement of Acceleration Time for Set Distance from Stop Position (Distance Setting Choices : 100, 200, 300, 400m)



4. Acceleration G's and Deceleration G's Display

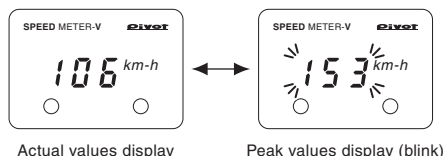
Accurate 0.01 G unit display of acceleration during both forward progression and braking helps you understand changes in torque and brake performance.



Dot blinks during deceleration G's display

5. Real Time Display and Peak Display

Display can be changed with just one touch to show actual values and peak values for Speed, Acceleration G's, and Deceleration G's from the time the key was turned ON.



6. Other Features

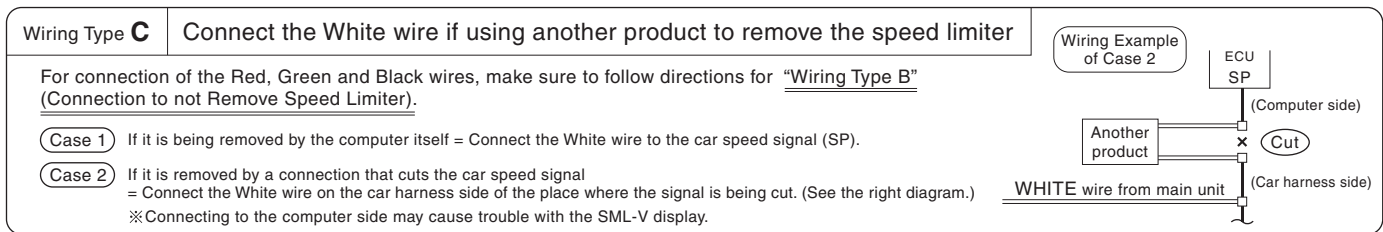
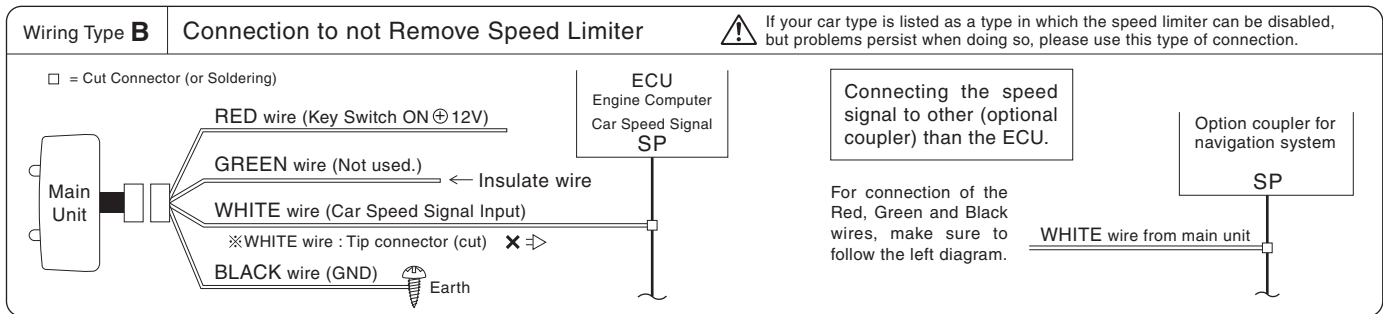
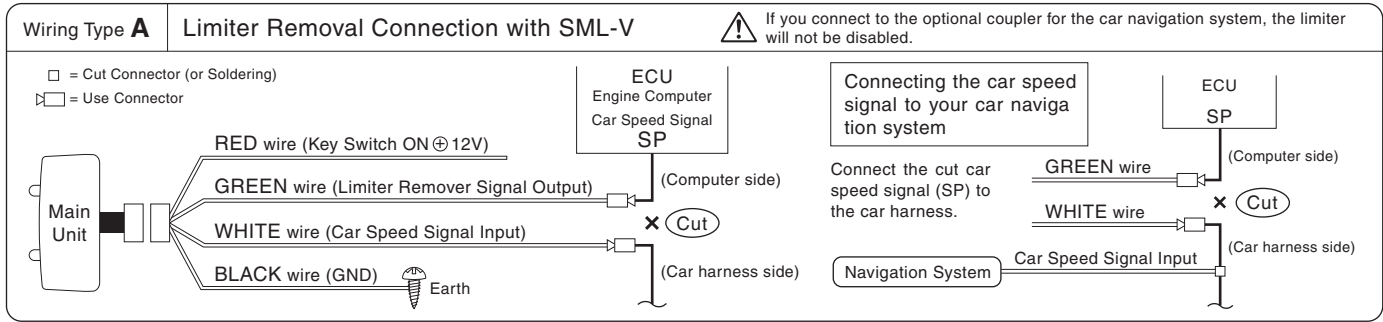
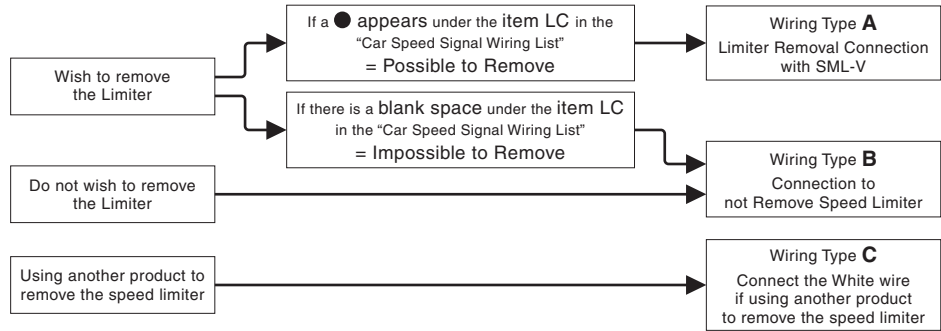
- Skeleton Black.....The Display shines through the skeleton black case.
- Compatible with wide range of car models.....From Kei Cars to Sports Cars.
- Compact Design.....The product's compact one piece body allows for easy installation without worrying about place and position.

CONNECTING THE WIRES

Preparation

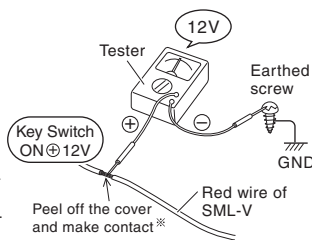
- Before installation, please check the following items on the separate sheet "Car Speed Signal Wiring List".
 - The speed signal (SP) position for the car in which you wish to install
 - The mark under LC for the car in which you wish to install
- There are basically three types of wiring that can be carried out, please check and select the type that best suits your case from the diagram to the right.

⚠ Using "Wiring Type A" (Limiter Removal Connection) on any cars other than those with a ● mark under the item LC may cause trouble and or damage.



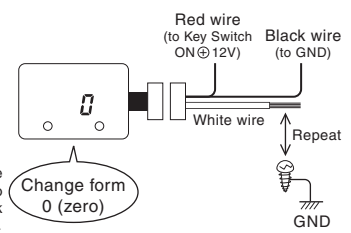
[Reference 1] Checking Red wire connection

- Using a tester, put into a range that can measure DC12V.
 - Peel off the cover in the middle of the Red wire, and make contact with the ⊕ terminal of the tester.
 - Connect the ⊖ terminal of the tester to an earthed screw (body earth).
 - Turn the key switch ON.
- The tester reads about 12V → The Red wire connections is fine.
 · The tester does not reads about 12V → The connection place is incorrect or the contact is poor.
- ※ After checking, make sure to insulate the wire where you peeled off the cover.



[Reference 2] Checking for changes in the speed display

- Make sure that the Red and Black wires are properly connected and turn the key ON.
 - Peel off the cover from the tip of the White wire and repeatedly make and break contact the lead wire (or the male connector's metal part) to a body earth screw.
- ※ If the SML-V speed display change from 0 (zero) it is OK. If there is no change from 0 (zero), please check the speed signal wiring connection.



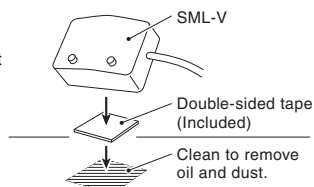
METER INSTALLATION

Install in an easy-to-view location.

- Clean oil and dust from the main unit and from the area where you wish to affix it.

- Make sure to securely affix it with the double-sided tape provided in the kit.

⚠ Do not reuse the tape; it will lose adhesiveness.



How to Use the Male and Female Wire Crimps

- Peel off about 8mm of vinyl covering from the tip of the wire and twist center of wire to make thicker.
 - Pull the wire through the cover.
 - Place the wire onto the crimp.
 - Crush the center tabs of the crimp down to hold the center of the wire.
 - Crush down the outer tab of the crimp over the vinyl covering.
- Note: Securely connect the male and female crimps, making sure to twist the male cover firmly into the female cover.

How to Use the Cut Connectors

※ If soldering is possible, please do so.

- Peel off about 10mm of the vinyl cover at connection.
 - Peel off about 10mm of the vinyl cover at the end of the product's wire.
 - Twist the uncovered wires.
 - Close tightly with cut connector.
- ※ Use a crushing tool to press the cut connector, if you do not have such a tool, use pliers or such to fold and crush the connector together for a secure contact.
- ※ After covering, make sure to insulate properly with vinyl tape.

PART NAMES AND FUNCTIONS

1 Display

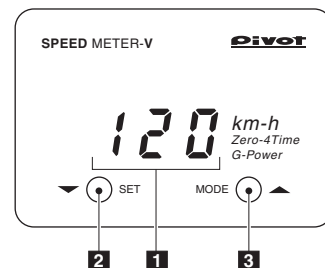
The display shows Speed, Acceleration G's, Deceleration G's, and 0-400 meter time, as well as various settings.

2 SET Switch (▼)

Switch from Real Time Display to Peak Display or change to view 0-400 measurement distances.

3 MODE Switch (▲)

Switches the Real Time Display and moves to the Pulse Settings Mode.



CAR SPEED PULSE SETTING

After finishing the installation, make settings for the car speed pulse.

1 Turn the key switch ON

After *Pivot* "PIVOT" has been scroll displayed twice, the display will automatically change to the real time reading of speed.

2 Press in on the MODE switch for three seconds to move to the Pulse Settings Mode

While the real time display is on, press in on the MODE switch for three seconds and the display will change to *PL5*. After about two seconds, the current settings display will appear.

⚠ If no operations are carried out for three seconds the settings will be finalized and the display will automatically change to the real time reading.

3 Press in on the SET switch or the MODE switch

Press in on the SET switch (▼ down) or the MODE switch (▲ up) to display the value for the pulse setting you desire.

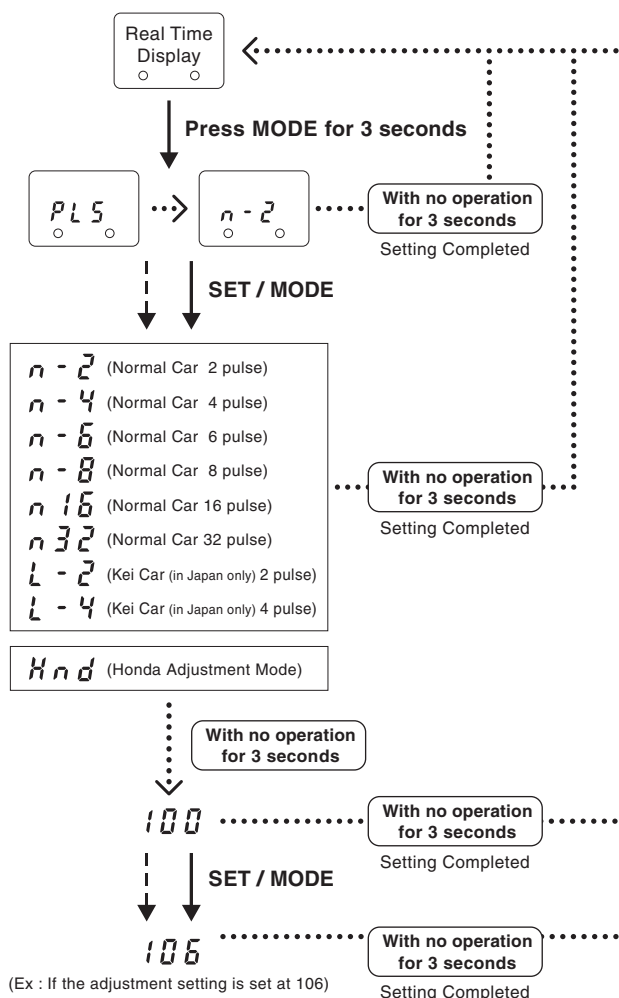
If no operations are carried out for three seconds the settings will be completed and the display will automatically change to the real time reading.

Notes Adjustment Mode Settings for Honda[※]

If installing to one of the car models listed under the "HONDA 2" section of the included "Car Speed Signal Wiring List", under number ③ move the display so that it reads *Hnd* and wait for three seconds. After three seconds the display will change to (70-130). Press in on the SET switch (▼ down) or the MODE switch (▲ up) to display the value for the pulse setting you desire.

If no operations are carried out for three seconds the settings will be completed and the display will automatically change to the real time reading.

※When using the Honda Adjustment Mode with any models other than the S2000 the normal speedometer will stop at 150 km/h when the speed limiter has been removed.



TROUBLESHOOTING

Please make the following checks before seeking repair.

Trouble	Possible Causes	Possible Solutions
The display does not work when the key is turned ON.	Poor connection of Key Switch ON ⊕ 12V.	<ul style="list-style-type: none"> ● Check the Red wire connections or conditions. ● Check to make sure of a proper connection to Key Switch ON ⊕ 12V. (See page.2 [Reference 1])
	Poor connection of GND.	<ul style="list-style-type: none"> ● Check the Black wire connections or conditions. ● Make sure that there is a connection to a place that is earthed.
While driving, the speed is not displayed.	Poor connection of the Car Speed Signal Input (SP).	<ul style="list-style-type: none"> ● Check the White wire connections or conditions. ● Check to make sure of a proper connection to the Car Speed Signal (SP). ● Make sure that the Green wire is not connected to the car harness side. (Make sure there is no failure of the main unit by following directions in page.2 [Reference 2])
The displayed speed is very different from my regular speedometer. (2 times or half of the speed)	The Car Speed Pulse Setting is wrong.	Make sure the pulse setting is according to the "CAR SPEED PULSE SETTING". Note : Many minor changes can cause the pulse to change; if necessary change the pulse setting so that the displayed speed matches your regular meter.
There is a small difference between the displayed speed and my regular meter.	It is a difference of precision between the two meters.	Small variances may occur between your regular meter, but this is not a failure of the main unit. Moreover, to make the display easier to view, the deceleration display has been slowed down a little.
The engine check lamp comes on.	Poor connection of the Limiter Remover Signal.	Check the Green wire connections or conditions.
The SML-V's speed display does not change during acceleration close to the limiter speed.	The White wire was connected closer to the computer side than the place where the limiter was removed by another product.	Connect the White wire closer to the car harness side than another product.
Another product's speed display does not change during acceleration close to the limiter speed.	There is a speed signal wire from another product connected closer to the computer side than the SML-V's Green wire.	Connect another product's speed signal wire to the same side (car harness side) as to which the SML-V's White wire is connected.

BASIC OPERATIONS AND EXPLANATION OF DISPLAYS

Turn the key switch ON. After **PIVOT** has been scroll displayed twice, the display will automatically change to the speed display.

Press the SET switch

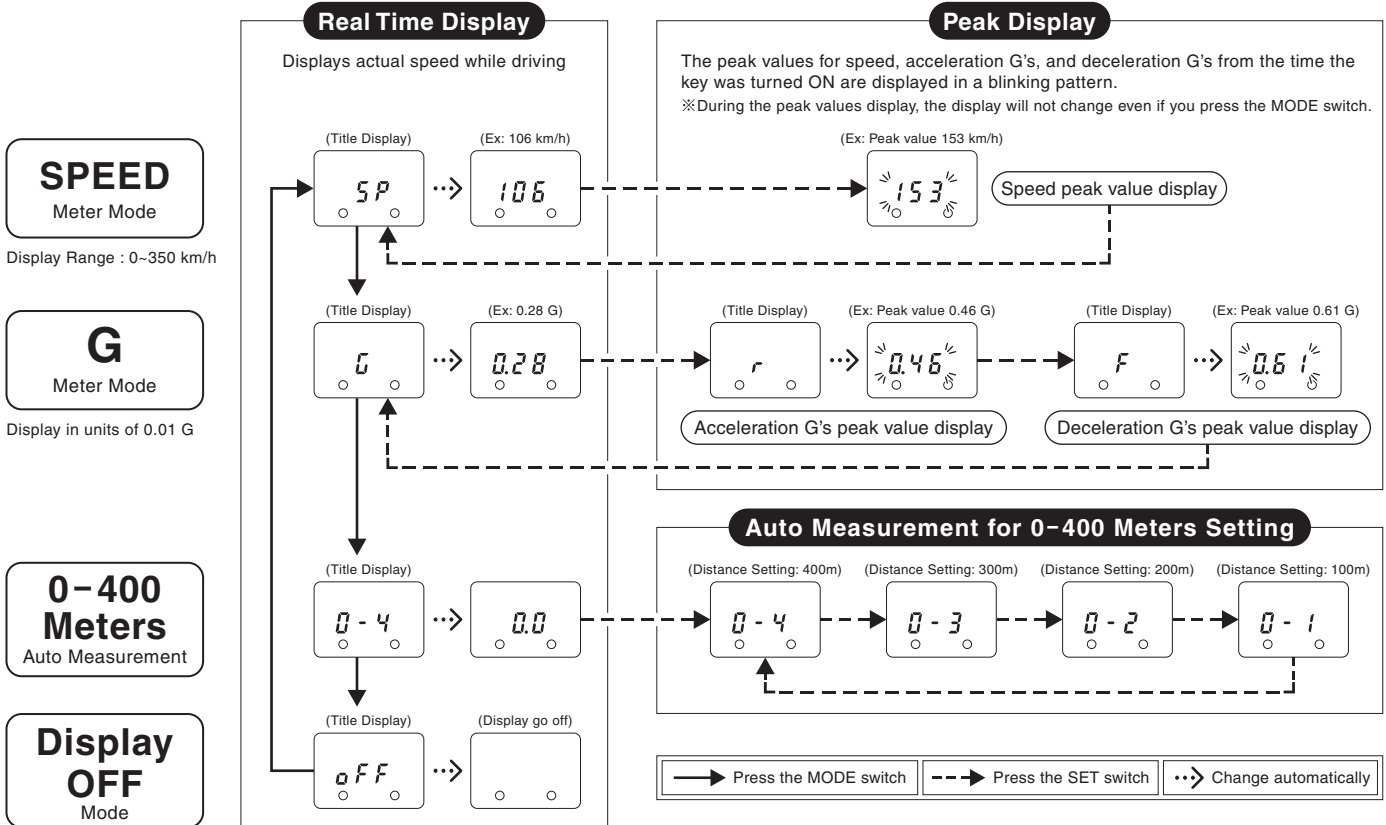
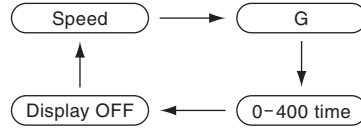
Switch between real time and peak Speed, Acceleration G's, Deceleration G's.



Moreover, change to view 0-400 measurement distances.

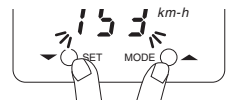
Press the MODE switch

The display changes in the following order: Speed, Acceleration/Deceleration G's, 0-400 meter time, and Display OFF.



RESET THE PEAK VALUES

If during the peak display you press in simultaneously on the SET switch and the MODE switch, the peak values for speed, acceleration G's and deceleration G's will all be reset to 0.



AUTO MEASUREMENT FOR 0-400 METERS

- Stop your car at the place where you wish to start measurement.
 - While the real time display is on, press in on the MODE switch to change the display to 0-4.
 - Press in on the SET switch to change the display to the distance you wish to measure. (Distance Setting Choices: 100, 200, 300, 400m)
 - If no operation is performed for two seconds, the display will change to 0.0 and preparation for measurement is completed. ※If you wish to make changes to the settings, press the SET switch again.
 - Once the car begins forward movement, measurement will automatically start.
 - Once the set distance has been reached, the time will appear in the display.
- ⚠ After measurement is completed, the data will be erased by operating a switch.