

DC Ammeter "CRABEE" CT-A User's Manual

Thank you very much for purchasing this product.
A05-7060 DC Ammeter "CRABEE" CT-A is digital ammeter that measures easily electric current when included at any place inside electric circuit. Please use this product after carefully reading this user's manual.

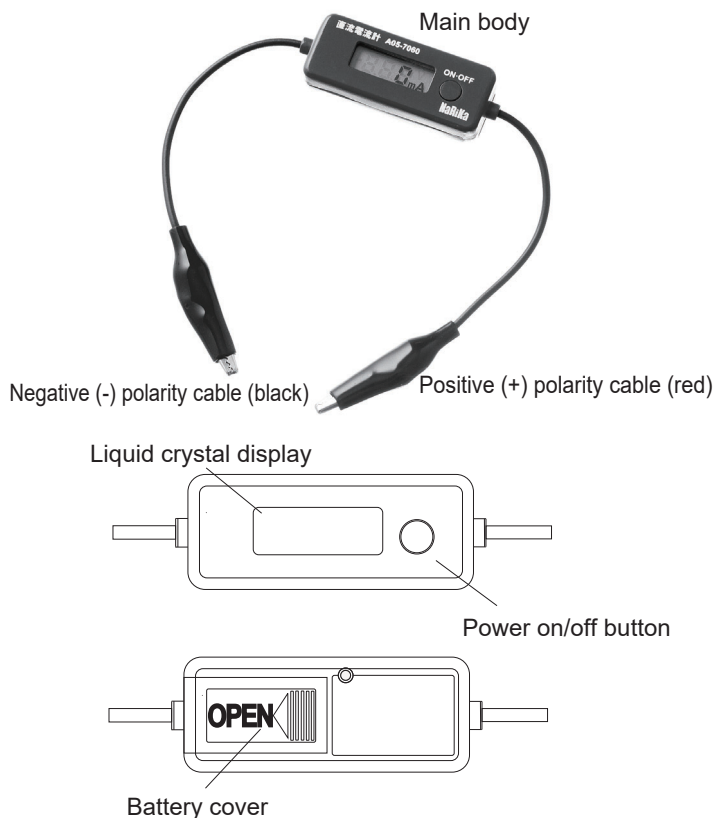
Caution

- No open flame: high risk of serious damage to the main unit
- No disassembly: disassembling might cause breakdown or injury, therefore do not disassemble the product.
- Keep dry: If the product get wet there is a risk of electric shock or breakdown, therefore do not expose to water.
- If during use or storage you notice abnormal smell, the product get warm, change of the products color, deformation and other abnormalities, do not use the product and contact us.
- Do not leave or store the product on places with high temperatures like under blazing sun inside a car or under strong direct sunlight. It might cause deformation or breakdown of the product.
- Do not apply strong pressure on the liquid crystal display, especially with sharp objects.
- When conducting experiment, place it on rigid, level surface only.
- Do not expose to strong shocks or do not throw with it.
- Do not open the battery lid and short circuit the inside parts.
- If stored for long time, remove batteries and store it separately.
- Do not use for electric circuits in which large electric current flows momentarily. (Example: short circuit of dry cell battery and others)
- Do not use for a long time with current flowing over the measurement range.
- Never connect to alternating current (AC) electric circuit.

Specification

- Size : 53 x 21 x 15 mm (body), 280 mm (length)
- Weight : 20g (with battery)
- Measurement range: ± 500 mA, ± 3.0 A (automatic range change)
- Resolution : 1 mA (up to ± 500 mA), 0.01 A (up to ± 3.0 A)
- Polarity indication : Automatic (display - sign only)
- Function : Auto power off
- Electrical power : 1 coin type lithium battery (CR1220)
- Accessory : 1pc of battery (CR1220) not included inside the product, User's manual

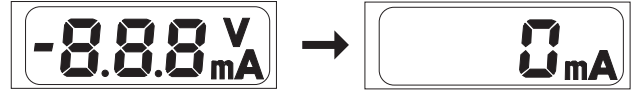
◇Name of parts



Operation instructions

◇Inserting battery

Slide the battery cover in the direction indicated by the arrow pointing to OPEN as printed on the cover to remove the cover before inserting 1 coin type lithium battery (CR1220), ensuring correct polarity. When you press the power button, measurement is possible after 0 point calibration (CAL will be shown on the display).



0 point calibration of the product is based on condition that the product is not connected to electric circuit. When switching on the product make sure that electric circuit is switched off. Also, if certain amount of electric current is flowing calibration will not be performed. To get accurate measurement conduct calibration outside of electric circuit and then connect into the electric circuit.

◇Electric current measuring

When you want to measure electric current inside of an electric circuit, please connect the product in serial connection. Even this product is switched off, electric current flows through it, therefore it can be used like a cable in a circuit. When switching on the product, just in case do not forget to switch off the power in the electric circuit.

This product's measurement range is changed automatically. When you switch on the power, the displayed range will be up to ± 500 mA, when ± 500 mA is exceeded, the range will automatically switch to ± 3.0 A range.



The range will switch automatically.

The product maximum shown electric current is ± 3 A. When it exceeds the range, the following display will show and start flashing. Lower the electric current or remove the product from the electric circuit. (Do not forget that the electric current flows even when this product is switched off)

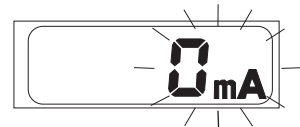


◇Auto power off

With the power turned on, if there is no electric current fluctuation for 5 minutes and 0 mA, then the product will turn off by itself. Also, during measurement, the product will turn off itself if used for longer than certain amount of time (automatic switch off in case of forgetting). Please be careful when doing long experiments.

◇Battery exchange

When battery replace is necessary, the liquid crystal display will start to repeatedly and slowly blinking. Please replace the battery accordingly.



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