

HIOKI

DIGITAL MULTIMETER DT4256

DMM / Testers



Super Fast Response Rate and Safety Features
Take Professional Testing to a Higher Level

Made in Japan for rock-solid quality.





Hazard
1

Continued high input may result in major accidents such as fire.

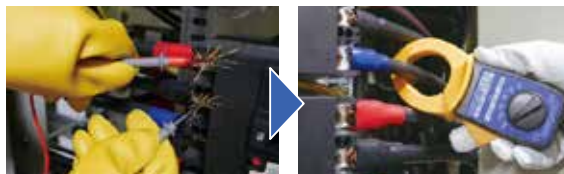


To prevent an accident, a warning function immediately notifies the operator if the DMM receives excessively high input.

*Red screen available on high-end models only.

Hazard
2

Mistakenly measuring voltage using the current range may lead to a short-circuit.

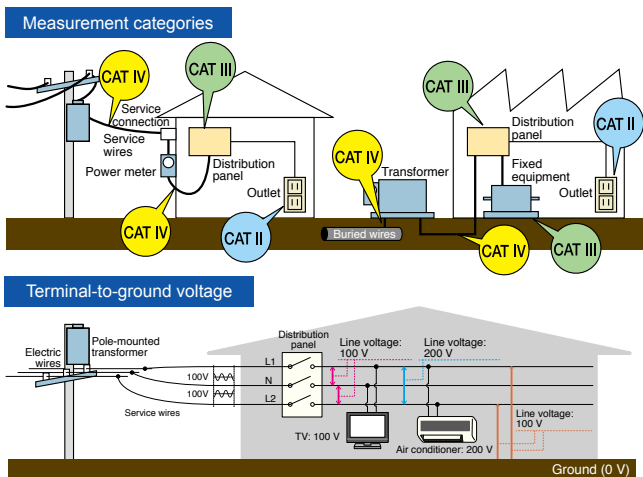


The DT4256 eliminate the root cause of such accidents by providing clamp-on sensor-based current measurement functionality instead of using conventional probes.



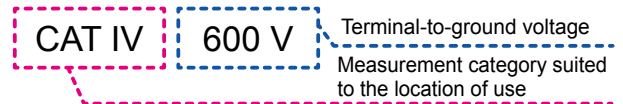
Safe testers that protect workers from dangerous accidents

Engineered based on extensive customer feedback, the Hioki Digital Multimeter DT4256 delivers the design and quality needed in order to ensure safety in field measurement.



Safe measurement requires use of an instrument that suits the measurement location.

To ensure operators' ability to use measuring instruments safely, IEC 61010 classifies the locations in which instruments are used into a series of safety-based measurement categories (ranging from CAT II to CAT IV). Using an instrument that does not satisfy the required safety level can lead to an electrical accident.



High-end models	CAT III 1000 V / CAT IV 600 V
Standard models	CAT III 1000 V / CAT IV 600 V
Pocket models	CAT III 600 V / CAT IV 300 V



Designed and manufactured in Japan to ensure high quality and guaranteed with a 3-year warranty for peace of mind

All development, design, and manufacturing processes for almost all Hioki digital multimeters are carried out at our Head Office in Nagano Prefecture. Some of the industry's most advanced technological capabilities enable us to deliver products of the highest possible quality.





Field-Proven Strength and Usability

Robust design capable of withstanding a drop from a height of 1 m onto concrete



Drop tester

To test our products' ability to withstand mechanical shock, we repeatedly drop them from a height of at least 1 m until they break. This drop-testing regime leads to more robust products by fostering a series of design improvements.

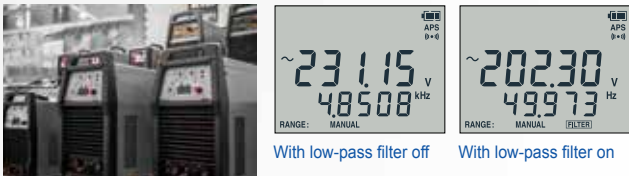


Preventing instrument failure by keeping out dust



If dust gets into the instrument's enclosure, it can cause the device to fail. Since dust can get into the instrument especially easily through the gap around the rotary switch, the DT4200 series incorporates a dust-proof part known as an O-ring where the rotary switch is mounted to improve the device's dust resistance.

Fast, accurate measurement of the output voltage on the secondary side of an inverter

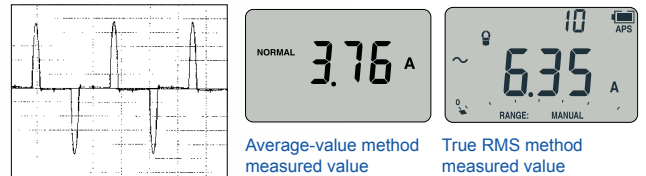


With low-pass filter off

With low-pass filter on

The DT series can accurately measure the voltage on the secondary side of an inverter, just like a power meter. Its low-pass filter rejects harmonic components so that the fundamental wave can be isolated and accurately measured.

True RMS measurement for accurate measurement of even distorted current waveforms



Average-value method measured value

True RMS method measured value

Current waveforms are often distorted, causing the average-value and true RMS measurement methods to yield different results. To obtain accurate readings, RMS measurement is indispensable.

Outstanding viewing angle so display is easy to read at an angle or even in a dim location



The DT4200 series features a display with a wide viewing angle and a backlight function so that it's easy to read, even when you can't view the screen from the front or when making measurements in a dim location.

Rotary switch that's easy to operate even when wearing gloves



The DT4200's rotary switch is designed to be easy to turn even when wearing thick work gloves, for example while working in hazardous measurement locations or harsh conditions.

Outstanding hands-free ease of use in the field when working with numerous measurement locations



Secure the instrument on the wall so that you don't have to hold it.

The display automatically stops once the measured value stabilizes.

Press the MEM key to save measured values in the instrument's internal memory.

It's hard to carry out work tasks smoothly when you're juggling a measuring instrument, probes, recording paper, and other supplies. Field concerns like these are resolved by the DT4200's magnetic strap, auto-hold function, and ability to save results in its internal memory. These capabilities boost work efficiency and help reduce work times.

*The auto-hold function is available exclusively in high-end and standard models. The ability to save results in internal memory is available exclusively in high-end models.

Extensive selection of probe tips that you can choose based on the measurement location, improving ease of measurement



With screw terminals

In deep-set locations that can't be reached with other probes

For clamping around the target busbar

With the DT4200, you can choose the probe type that best suits your measurement location, making it possible to measure in areas that can't be reached with conventional probes and busbars that you wish to clamp between probes.

*Compatible probe tips vary with the DMM model. Please see page 16. The optional Connection Cable L4930 is required in order to use the probes shown at the left.



Featuring the world's fastest DMM engine*

The DT4200 series features a dedicated IC that Hioki developed in-house in order to deliver unprecedented measurement speed.

*According to Hioki research conducted in April 2015.

Standard model DT4256

Introducing a line of field-optimized instruments that can be chosen based on the application at hand

DCV typical accuracy: $\pm 0.3\%$ rdg. ± 3 dgt.

Measurement categories: CAT III (1000 V) / CAT IV (600 V)



Multifunction model

DT4256
Delivers maximum functionality for use in a wide range of settings.

DC voltage	600.0 mV to 1000 V
AC voltage	6.000 V to 1000 V
DC + AC voltage	DT4281/4282 only
DC current	60.00 mA to 10.00 A
AC current	600.0 mA to 10.00 A
AC clamp-on measurement	Frequency
Resistance	Continuity check
Temperature	Diode test
Capacitance	Conductance
AC/DC automatic detection	Voltage detection function

● Supported measurement parameter ● Supported measurement parameter (with model-specific variations) ● Unsupported measurement parameter

*The range figures given indicate the instrument's measurement ranges (not the range of measurable values).

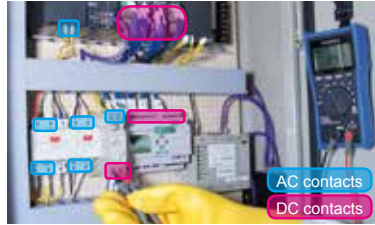
Applications



Magnetic strap and auto-hold function free up hands for easier work

Using the magnetic strap (option)

By using the magnetic strap to secure the instrument to the wall and the auto-hold function to automatically stop display values, you can free your hands, making it easier to record measured values and significantly boosting work efficiency.



Automatic switching of measurement in locations where AC and DC voltages are mixed

AC/DC voltage automatic detection

When making measurements in locations with both AC and DC voltages, automatic switching eliminates the need to operate the rotary switch and helps prevent measurement mistakes.



Use a computer in the field to save and check measured values

With the Communication Package DT4900-01 (option)

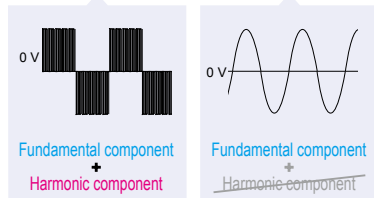
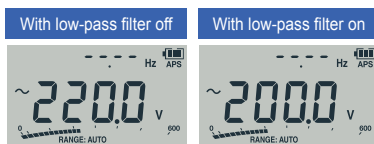
Measured values can be displayed in real time on a computer, and displayed values can be saved to a file (text format) or graphed at a user-specified interval.

*The computer and multimeter are electrically isolated by means of optical communications so that data can be sent with peace of mind.



Measure output voltage on the secondary sides of inverters

Accurately measure the fundamental wave by eliminating harmonic components with the DMM's low-pass filter function.



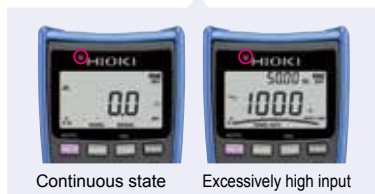
Polarity detection and notification

Certain standard models can detect a load voltage in excess of -10 V and notify the operator with a red LED and beep.



Intuitive notification of continuity check results and excessively high input with a red LED and beep

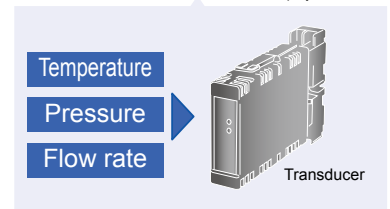
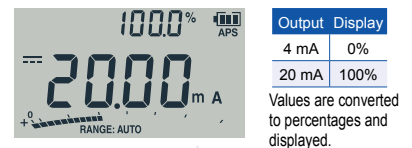
Standard models notify the operator of continuity check results and excessively high input with a red LED and beep, making it possible to check measurement results intuitively.



Percentage display for instrumentation signal measurement

4 to 20 mA percentage-equivalent display (DT4253 only)

The standard models' dual display function lets you to simultaneously check measured values and percentage-equivalent values at a glance.



L9207-10 / DT4911 Options

DT4280/DT4250 Series (Bundled accessory)

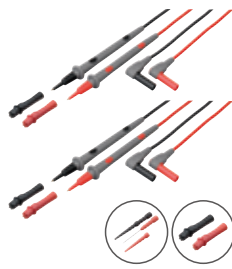


TEST LEAD L9207-10

Cable length 90 cm (2.9527 ft)
with one each red and black caps

with cap
CAT III 1000V/CAT IV 600V
without cap
CAT II 1000V

L4933 and L4934 probe tips
(at right) can be used
on L9207-10/DT4911 test leads.



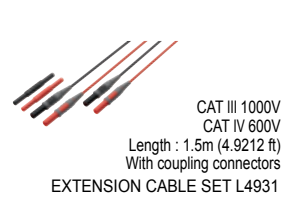
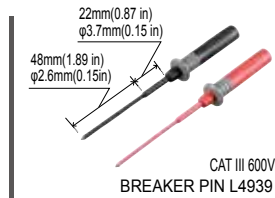
L4930 Options

Compatible DMMs:






Length : 1.2m (3.937 ft)
CONNECTION CABLE L4930

Probe tips (at right) can be
used on L4930 connection
cables.



AC CLAMP ON PROBES (Adapter 9704 required for connection)

Product appearance	 CAT III 600V	 CAT III 600V	 CAT III 600V
Model number	9010-50	9018-50	9132-50
Rated current	AC 10/20/50/100/200/500 A		AC 20/50/100/200/500/1000A
Amplitude accuracy (45 to 66Hz)	±2% rdg. ±1% f.s.	±1.5% rdg. ±0.1% f.s.	±3% rdg. ±0.2% f.s.
Frequency characteristics	40Hz to 1kHz:±6% rdg.	40Hz to 3kHz:±1% rdg.	40Hz to 1kHz:±1% rdg.
Output rate	AC 0.2 V f.s. (For each range)		
Max. circuit voltage	AC600 V (50/60Hz)		
Diameter	φ46mm (1.81 in) or less	φ55mm (2.17 in) or less, 80×20mm (3.15×0.79 in)	
Dimensions, mass	78W×188H×35D mm (3.07W × 7.40H × 1.38D in) 420g (14.8oz.), cord length 3m (9.84 ft)	100W×224H×35D mm(3.94W ×8.82 H × 1.38D in) 600g(21.1oz.), cord length 3m(9.84 ft)	

Adapter Model 9704 is required to connect
AC CLAMP ON PROBES 9010-50, 9018-
50 and 9132-50



CONVERSION ADAPTER 9704

Other options



THERMOCOUPLES (K) DT4910

- Thermal junction form: exposed weld
- Sensor length: approx. 800 mm
- Measurement temperature range
-40 to 260°C
- Allowable tolerance:±2.5°C



COMMUNICATION PACKAGE (USB) DT4900-01

- Communication cable
- Communication adapter
- PC software
- Instruction manual
- OS: Windows 8.1/8/7, Vista
(SP1 or later)



MAGNETIC STRAP Z5004



CARRYING CASE C0202



CARRYING CASE C0201



CARRYING CASE 3853

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