

HIOKI

DIGITAL MULTIMETER DT4200 Series



DT4261

DT 4200 SERIES

MADE IN JAPAN



Excludes DT4281 and DT4282

DT4261

Bluetooth® wireless technology support for recording and managing measurement data

Now joined by the DT4261!

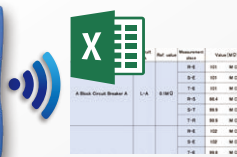


Bluetooth® communication with Z3210 attached to DT4261 Bluetooth®

Install the Wireless Adapter Z3210 to the DT4261 to enable Bluetooth® communications. With the Z3210, you can transfer data directly to an Excel® file or pair the instrument with GENNECT Cross.



Attach to enable Bluetooth® wireless technology



Transport to the Excel® file



Transport to GENNECT Cross

Z3210
For more details



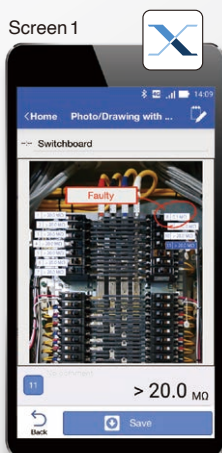
Manage measurement data using GENNECT Cross

Pair the DT4261 built in with Bluetooth® wireless technology with the free GENNECT Cross mobile app to further data management, processing and report exporting on your mobile device.

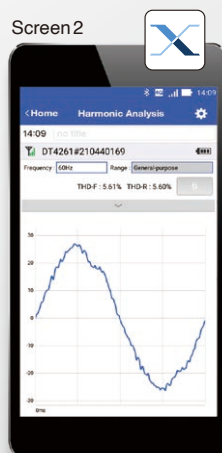
GENNECT
Cross
For more details



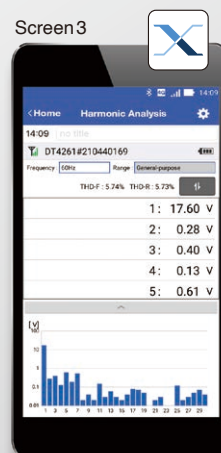
Transfer data to a tablet wirelessly



Take a picture of the test location and map measured values on it



View and verify waveforms on your mobile device like on an oscilloscope



Troubleshoot with simple harmonic analysis in the field



Mail



Cloud



- Save data and create reports right on the App
- Share data via cloud services or E-mail

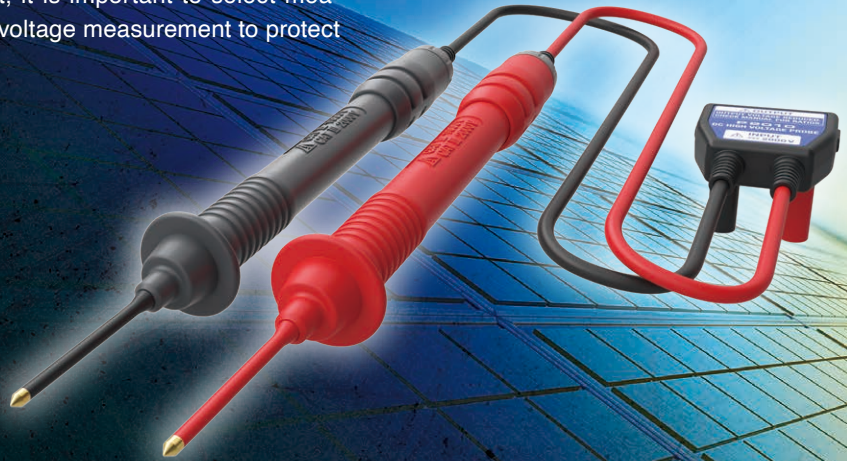
Measurement up to CAT III 2000 V with the DC High Voltage Probe P2010 in Combination with DT4261

Safe Inspection of Solar Installations with High Voltage

Photovoltaic power generation equipment are becoming increasingly high-voltage in order to reduce costs and improve the efficiency of power generation systems. As a result, it is important to select measuring instruments that support higher voltage measurement to protect the safety of inspection workers.

NEW

DC HIGH VOLTAGE PROBE P2010 *Sold separately



Safe testers that protect workers from dangerous accidents

Built-in voltage input terminal protection fuse to prevent internal short circuits



The DT4255's voltage input terminals incorporate a protective fuse so that contamination of the instrument's internal components with iron powder or other particulate matter will not result in an internal short-circuit. The fuse can be replaced easily on site.

Terminal shutter to prevent accidental insertion



The DT4281, DT4282 and DT4261 use terminal shutters to keep probes from being inserted into the wrong inlets. The shutters block whichever terminal is not being used based on the selected measurement function.

Equipped with a protection circuit to prevent accidents from incorrect voltage input



Resistance range measurement circuit



Input-based switching of the measurement circuit

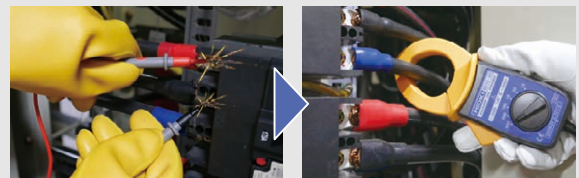
Over-input warning function



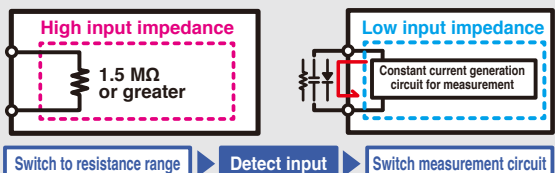
To prevent an accident, a warning function immediately notifies the operator if the DMM receives excessively high input.

*Red screen available on high-end models and DT4261, DT4223, DT4224 only.

Current measurement by AC clamp sensors to prevent accidents



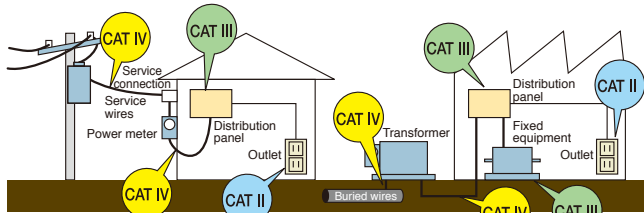
The DT4281, DT4261, DT4253, DT4255 and DT4256 eliminate the root cause of such accidents by providing clamp-on sensor-based current measurement functionality instead of using conventional probes.



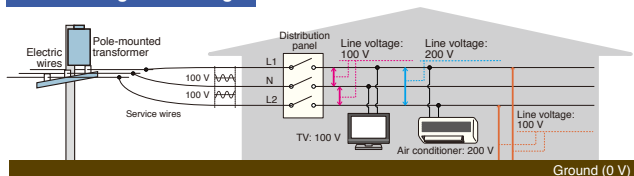
The DT4223 and DT4224 are equipped with a protection circuit that prevents electrical accidents that occur when voltage is input in the resistance range. The measurement circuit is switched after the instrument detects resistance, continuity, capacitance, or diode input. Even if you mistakenly input voltage with the instrument set to the resistance range, the high input impedance will limit the current flowing to the instrument to 1.5 mA or less to prevent potential hazards.



Measurement categories



Terminal-to-ground voltage



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.

CAT IV 600 V Terminal-to-ground voltage
Measurement category
suited to the location of use

| | |
|--------------------|-------------------------------|
| High-end models | CAT III 1000 V / CAT IV 600 V |
| New Standard Model | 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

3 year
Warranty

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

DT4200 series

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.

Outstanding viewing angle so display is easy to read at an angle or even in a dim location and rotary switch that's easy to operate even when wearing gloves

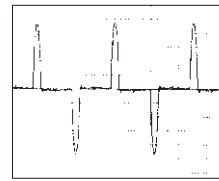


The display has a wide viewing angle and backlight function for easy viewing when the screen is not visible from the front or when measuring in dimly lit areas.



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.

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.

Hand-free and easy to use

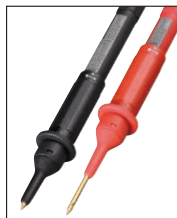


It's hard to carry out work tasks smoothly when you're juggling a measuring instrument, probes, recording paper, and other supplies. Field concerns like these are resolved by the DT4200's magnetic strap, auto-hold function*, and ability to save results in its internal memory. These capabilities boost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

*The auto-hold function is available exclusively in high-end, standard models and DT4261, DT4223, DT4224. The ability to save results in internal memory is available exclusively in high-end models.

New L9300 test leads with integrated cap*

*Included accessory for DT4261. Included accessory probes for DT4252, DT4253, DT4255, DT4256, DT4281, and DT4282 will be replaced by the probe L9300 starting with batches manufactured in March, 2025



CAT IV 600 V/CAT III 1000 V

CAT II 1000 V

Test leads L9300 now incorporate integrated caps. The design lets you change the measurement category simply by sliding the test lead's protective finger guard. As an added bonus, you no longer have to worry about losing caps!

Learn more about the L9300

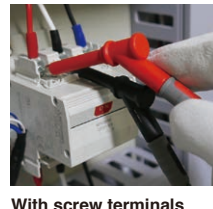


Video



3D view

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.



High-end models

Featuring high accuracy, extensive additional functionality, and a broad range of measurement parameters

DC V typical accuracy: $\pm 0.025\%$ rdg. ± 2 dgt.
Measurement categories: CAT III (1000 V), CAT IV (600 V)



For electrical work in the field
DT4281

Designed for maximum safety in the field when measuring current with clamp-on sensors.

| | |
|---------------------------|-----------------------------|
| DC voltage | 60.000 mV to 1000.0 V |
| AC voltage | 60.000 mV to 1000.0 V |
| DC + AC voltage | 6.000 V to 1000.0 V |
| DC current | 600.00 μ A to 600.00 mA |
| AC current | 600.00 μ A to 600.00 mA |
| AC clamp-on measurement | Frequency |
| Resistance | Continuity check |
| Temperature | Diode test |
| Capacitance | Conductance |
| AC/DC automatic detection | Voltage detection function |



For laboratory and research use
DT4282

Designed for use in laboratories and R&D applications where you wish to measure a wide variety of parameters.

| | |
|---------------------------|----------------------------|
| DC voltage | 60.000 mV to 1000.0 V |
| AC voltage | 60.000 mV to 1000.0 V |
| DC + AC voltage | 6.000 V to 1000.0 V |
| DC current | 600.00 μ A to 10.000 A |
| AC current | 600.00 μ A to 10.000 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).

Functions and Features



Magnetic strap frees both hands for work

Using the magnetic strap (option)

By using the magnetic strap to secure the instrument to the wall, you can free both hands so that you can more easily record measured values, significantly boosting work efficiency.



Automatically hold display values and save results with one touch to the DMM's internal memory

The display is automatically held once the measured value stabilizes. You can save measurement results to the instrument's internal memory simply by pressing the MEM key, making it easy to read and record values during inspection work.



Manage measurement data on a computer

Using the Communication Package DT4900-01 (option)

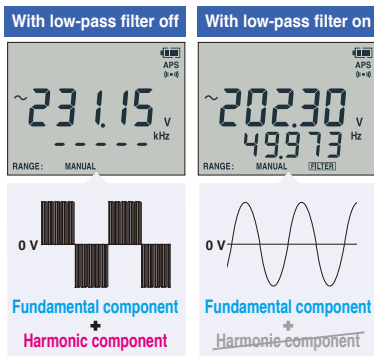
Measurement results can be downloaded to a computer via a USB connection. Once downloaded, you can save them as a file (text format) or display them as a graph using the desired interval. Results can also be sent in real time while measurement is ongoing.

*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

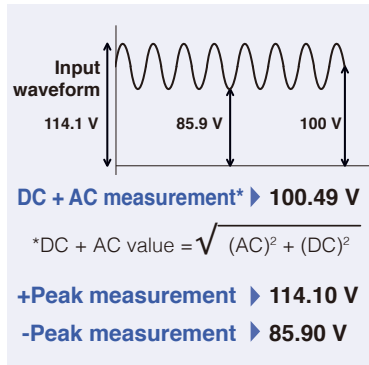
Accurately measure the fundamental wave alone by eliminating harmonic components with the DMM's low-pass filter function.



Ripple voltage confirmation of DC charging systems

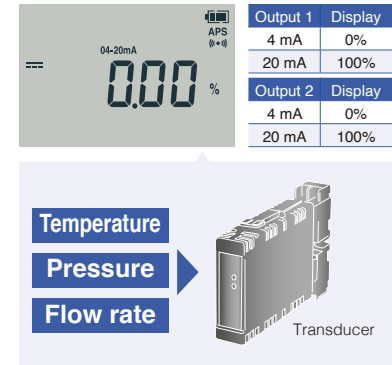
Peak value measurement / DC + AC voltage measurement

High-end models can detect ripple voltage with a superposed DC signal.



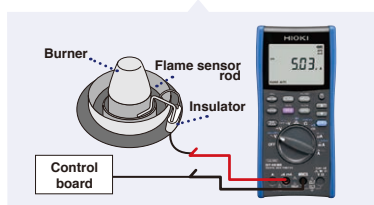
Percentage display for instrumentation signal measurement

You can check percentage-equivalent values.



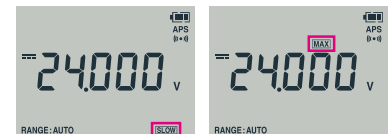
Measure very low currents used by gas-burning devices

High-end models provide a DC 600.00 µA range for measuring burner flame currents.



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

High-end models notify the operator of continuity check results and excessively high input with a red screen backlight and beep, making it possible to check measurement results intuitively.

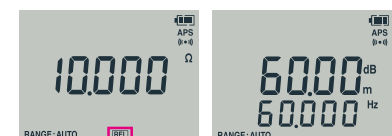


Display refresh rate

Change the display refresh speed to stabilize the display when performing measurement characterized by a high level of variability.

Maximum/minimum value display

Check the maximum and minimum measured values shown on the display after pressing the MAX/MIN button.



Relative display

View relative values using the display value before the relative function was enabled as the reference.

Decibel conversion

Convert the results of AC voltage measurement to a decibel value relative to a reference value and display the results (dbm/dbv).



New standard model

Supports wireless communication to increase work efficiency.
High voltage measurement up to CAT III 2000 V by connecting a dedicated probe.

DC V typical accuracy: $\pm 0.15\%$ rdg. ± 2 dgt.
Measurement categories: CAT III (1000 V), CAT IV (600 V)

Safe Inspection of Solar Installations with High Voltage

NEW

DC HIGH VOLTAGE PROBE P2010



By connecting the optional DC High Voltage Probe P2010, high voltage measurement up to CAT III 2000 V is now possible.



Multi-functional, on-site maintenance, mega solar DT4261

Go wireless with the Z3210!
For trouble analysis in the field.

Easily go wireless and manage your data digitally

WIRELESS ADAPTER Z3210



Wireless communication is supported in combination with the wireless adapter Z3210 (sold separately). In addition to working with the free "GENNECT Cross" application, the Excel® direct input function can also be used.

Why is CAT III 2000 V capability necessary?

According to the standards for Photovoltaic (PV) module safety qualification (IEC 61730-1), PV modules are treated as the overvoltage category III, and a measuring instrument in the measurement category III is required. Using instruments that can accommodate the appropriate measurement category serves to protect workers and equipment from serious accidents such as electric shock and burnout. Currently, adoption of 1500 V solar installation is growing, but instruments that can accommodate even higher voltages will be necessary in the future as larger and even more efficient systems enter into use.

| | |
|---------------------------|----------------------------|
| DC voltage | 600.0 mV to 1000 V |
| AC voltage | 6.000 V to 1000 V |
| DC + AC voltage | 6.000 V to 1000 V |
| DC current | 600.0 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 |

DT4261-90 (Z3210 set product)

The DT4261-90, a set of DT4261 and Z3210, is also available. It is more economical than purchasing the DT4261 and Z3210 separately, and allows you to build a wireless communication environment with one purchase.



● Supported measurement parameter ● Unsupported measurement parameter

*The range figures given indicate the instrument's measurement ranges. Not the range of measurable values. Please see page 16 for details.

Link with GENNECT Cross



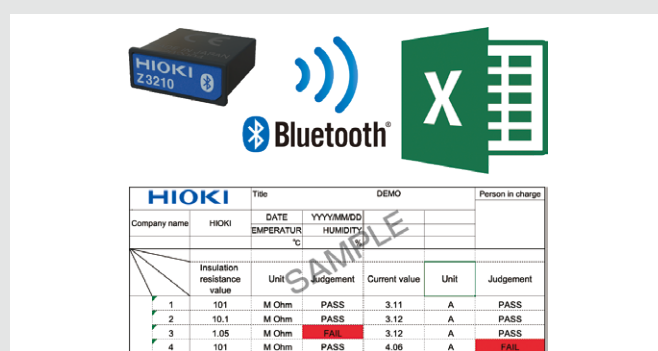
Troubleshoot in the field

When combined with GENNECT Cross, the DT4261 you can perform simple harmonic analysis. Applications include harmonic measurement of power conditioners for solar systems and problem analysis of power supply systems.

Problems that can be caused by harmonics

- Equipment burn-out and destruction due to overheating
- Malfunctions of power control devices
- Reduced service life and efficiency for power devices

Excel® Direct Input Function



Improve work efficiency! Labor-saving measurement with digitalization

The wireless adapter Z3210 (sold separately) comes standard with an Excel® direct input function. It enables direct transfer and input of measurement data to templates created in Excel® leading to increased work efficiency in the field.

Functions and Features



Terminal shutter closes on unused terminals depending on the measurement function

The DT4261's terminal shutters are linked to the instrument's rotary switch. They block access to test lead terminals that aren't being used, making it physically impossible to insert a lead into the wrong terminal.



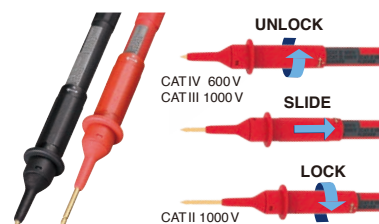
Prevents incorrect current measurement with the Fuse Check function

When switching from the clamp function to the current function, a fuse disconnection check is automatically performed. This allows the user to know if the fuse is broken before current measurement, which prevents erroneous measurement.



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

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.



Test leads with an integrated cap for greater convenience and safety

The L9300 test lead with an integrated cap is included as a standard. The finger guard can be easily slid to switch between measurement categories without worrying about losing the cap.



Free up hands for work with the magnetic strap* and auto-hold function

*The Magnetic Strap is sold separately

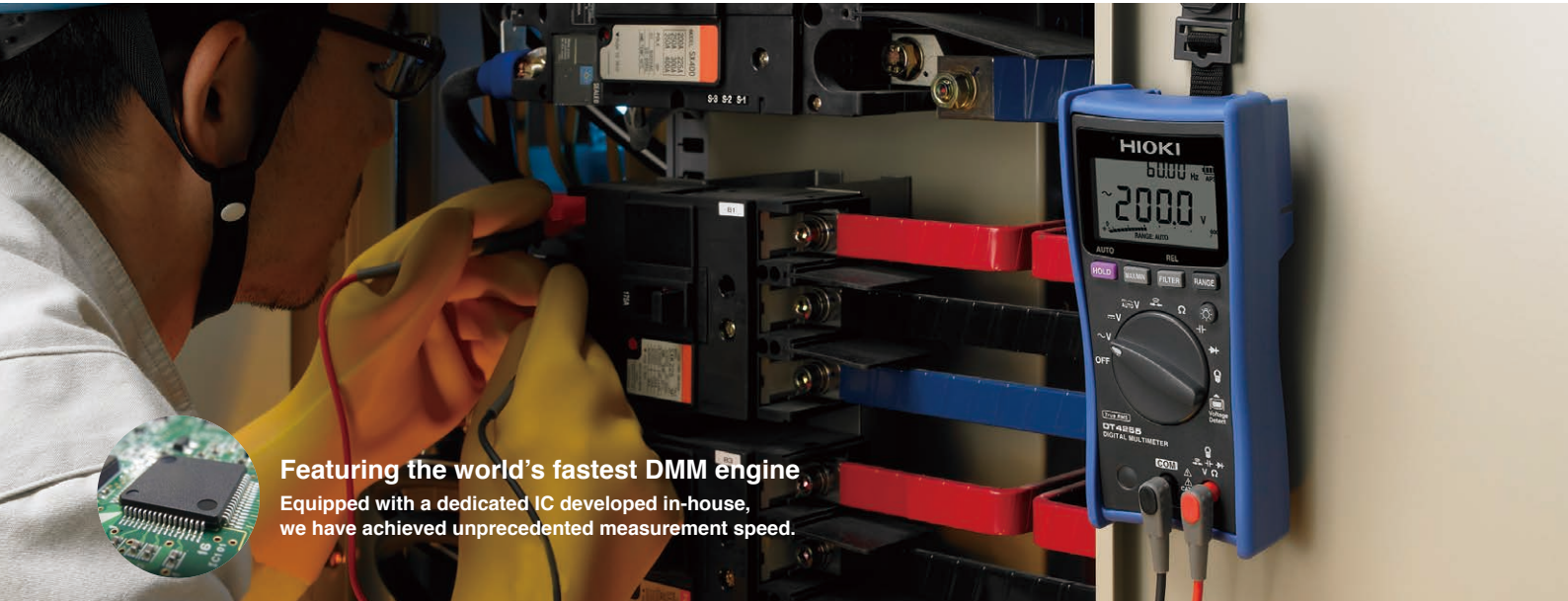
By using the magnetic strap to secure the instrument to the wall and the auto-hold function to automatically stop display values, you can free your hands, making it easier to record measured values and significantly boosting work efficiency.



Manage measurement data on a computer

Using the Communication Package DT4900-01 (sold separately)

Measurement results can be downloaded to a computer via a USB connection. Once downloaded, you can save them as a file (text format) or display them as a graph using the desired interval. Results can also be sent in real time while measurement is ongoing.



Featuring the world's fastest DMM engine
Equipped with a dedicated IC developed in-house,
we have achieved unprecedented measurement speed.

Standard models

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

DC V typical accuracy: $\pm 0.3\%$ rdg. ± 3 dgt.
Measurement categories: CAT III (1000 V), CAT IV (600 V)



**For laboratory and
research use**
DT4252

For laboratories and R&D
applications where you
wish to measure a wide
variety of parameters.



**For instrumentation
4-20 mA**
DT4253

Measure
instrumentation, air-
conditioning equipment,
and gas-burning
devices.



**For electrical work
in the field**
DT4255

Designed for
maximum safety with
voltage measurement
terminals that are
protected by a fuse.



**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 | 6.000 A to 10.00 A |
| AC current | 6.000 A to 10.00 A |
| AC clamp-on measurement | Frequency |
| Resistance | Continuity check |
| Temperature | Diode test |
| Capacitance | Conductance |
| AC/DC automatic detection | Voltage detection function |

| | |
|---------------------------|----------------------------|
| 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 μ A to 60.00 mA |
| AC current | n/a |
| AC clamp-on measurement | Frequency |
| Resistance | Continuity check |
| Temperature | Diode test |
| Capacitance | Conductance |
| AC/DC automatic detection | Voltage detection function |

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

| | |
|---------------------------|----------------------------|
| 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).

*Your instrument can be used to measure voltages in excess of 1000 V DC if and only if both of the following conditions are satisfied:
1. The circuit under measurement is isolated from the commercial power grid. 2. The circuit under measurement is isolated from ground.

Functions and Features



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 (DT4253, DT4255, DT4256 only)

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)

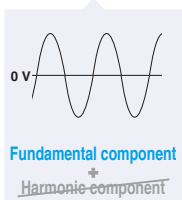
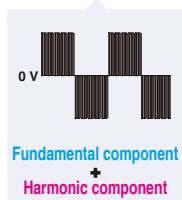
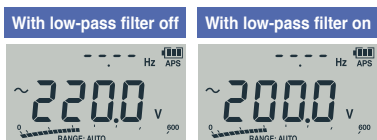
Measured values can be displayed in real time on a computer, and displayed values can be saved to a file (text format) or graphed at a user-specified interval.

*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.



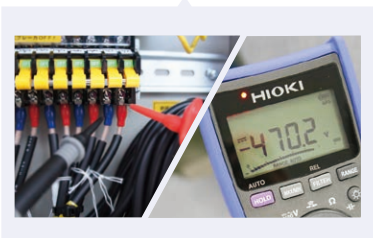
Over-input warning function

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

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.

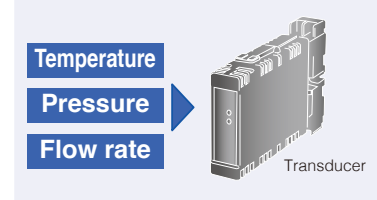
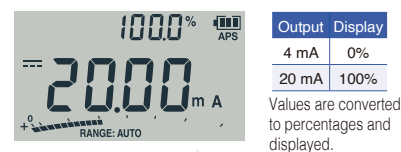
(DT4255, DT4256 only)



Percentage display for instrumentation signal measurement

4 to 20 mA percentage-equivalent display (DT4253, DT4256 only)

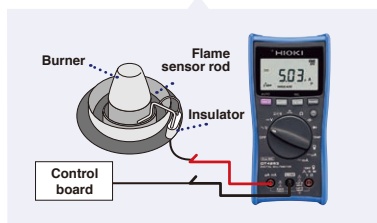
The standard models' dual display function lets you to simultaneously check measured values and percentage-equivalent values at a glance.



Measure very low currents used by gas-burning devices

DC μ A range (DT4253 only)

Model DT4253 provides a DC 60.00 μ A range for measuring burner flame currents.



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

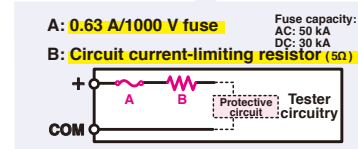
Standard models notify the operator of continuity check results and excessively high input with a red LED and beep, making it possible to check measurement results intuitively.



Thorough prevention of short-circuit accidents

Voltage measurement terminal fuse (DT4255 only)

When using the resistance measurement function, a protective circuit functions to prevent a short-circuit accident in the event of erroneous operation such as improperly supplying voltage input. Even if a short-circuit occurs inside the tester, a current-limiting resistor will limit any short-circuit current while a fast-blow fuse quickly and reliably disconnects the tester circuitry, preventing a short-circuit accident.





Featuring the world's fastest DMM engine
Equipped with a dedicated IC developed in-house,
we have achieved unprecedented measurement speed.

Pocket models

Featuring a compact body for ergonomic hold
and a reliable, safe design

DC V typical accuracy: $\pm 0.5\%$ rdg. ± 5 dgt.
Measurement categories: CAT III (600 V), CAT IV (300 V)



**For electrical
work in the field**

DT4223

Delivering maximum field safety
for workers whose principal use
is voltage measurement.

**For multiple
applications**

DT4224

For laboratories and R&D
applications to measure a wide
variety of parameters.

| | |
|---------------------------|----------------------------|
| DC voltage | 600.0 mV to 600.0 V |
| AC voltage | 6.000 V to 600.0 V |
| DC + AC voltage | DT4281/4282 only |
| DC current | n/a |
| AC current | n/a |
| AC clamp-on measurement | Frequency |
| Resistance | Continuity check |
| Temperature | Diode test |
| Capacitance | Conductance |
| AC/DC automatic detection | Voltage detection function |

| | |
|---------------------------|----------------------------|
| DC voltage | 600.0 mV to 600.0 V |
| AC voltage | 6.000 V to 600.0 V |
| DC + AC voltage | DT4281/4282 only |
| DC current | n/a |
| AC current | n/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).

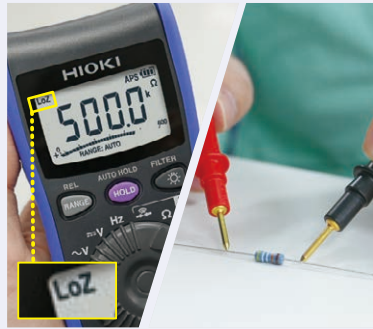
Functions and Features

New feature circuit breaker false trip prevention



Prevent potential accidents during incorrect input

The measurement circuit switches only after detecting the appropriate signal. This way, even if you mistakenly input voltage, accidents due to tripped breakers or arcs will not happen. (see page 2)



LoZ icon identifies switched measurement circuit

When the instrument detects resistance, continuity, capacitance, or diode input, the LoZ icon is shown on the display, allowing you to identify at a glance which measurement circuit has been selected.



Warning function notifies you of incorrect input.

The instrument's display flashes red to warn you when voltage has been mistakenly input while the instrument is set to the resistance range.



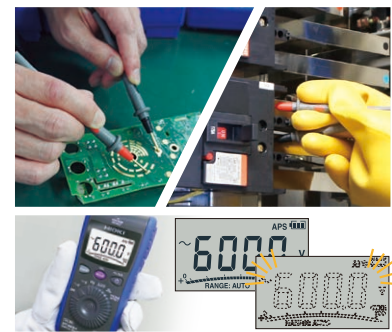
Compact and lightweight design for outstanding ease of use

The small form factor fits in your hand perfectly and is easily stowable, making it convenient to transport to and from the field and boosting work efficiency. The lightweight design also ensures that pocket models are easy to work with.



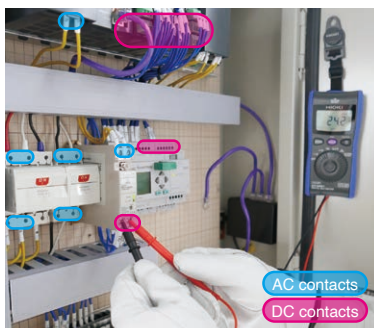
Safe enough for measuring voltage at distribution panels and service wires

Despite a compact body, the pocket models can be used to measure voltage at distribution panels and service wires in CAT III (600 V), CAT IV (300 V) situations.



Intuitive notification of excessively high input with flashing screen

The pocket digital multimeters notify the operator of excessively high input by flashing the screen, making it possible to check measurement results intuitively.



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

AC/DC voltage automatic detection (DT4223 only)

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.



Detect voltage simply by holding the instrument against a wire

Voltage detection function (DT4223 only)










Easily detect voltage with the built-in sensor. Results are communicated with a beep.



Fast measurement for outstanding ease of use

Measured values are displayed quickly to facilitate quick testing. The difference is clear when you compare the measurement speed with that of the Hioki Card HiTESTER 3244-60.

DT4200 Series Basic Comparison

| Model category | High-end models | | New standard models | Standard models | | | | Pocket models | |
|--|---|---|---|---|---|--|---|---|---|
| Measurement type | Electrical work | General use | General use/ mega Solar | General use | Air conditioning/ instrumentation | Electrical work | General use | Electrical work | General use |
| Model | DT4281 | DT4282 | DT4261 /DT4261-90* ¹ | DT4252 | DT4253 | DT4255 | DT4256 | DT4223 | DT4224 |
| Appearance |  |  |  |  |  |  |  |  |  |
| Basic Characteristics | | | | | | | | | |
| True RMS | ✓ | | ✓ | ✓ | | | | ✓ | |
| DC V basic accuracy | ±0.025% rdg. ±2 dgt. | | ±0.15% rdg. ±2 dgt. | ±0.3% rdg. ±5 dgt. | | ±0.3% rdg. ±3 dgt. | | ±0.5% rdg. ±5 dgt. | |
| Measurement items (Typical ranges are indicated; may not reflect maximum or minimum measurable signal) | | | | | | | | | |
| DC voltage | 60 mV to 1000 V | | 600 mV to 1000 V, 2000V* ² | 600 mV to 1000 V | | | | 600 mV to 600 V | |
| AC voltage | 60 mV to 1000 V | | 6 V to 1000 V | 6 V to 1000 V | | | | 6 V to 600 V | |
| DC V + AC V | 6 V to 1000 V | | 6 V to 1000 V | n/a | | | | n/a | |
| DC A current | 600 μA to 600 mA | 600 μA to 10 A | 600 mA to 10 A | 6 A to 10 A | 60 μA to 60 mA | n/a | 60 mA to 10 A | n/a | |
| AC A current | 600 μA to 600 mA | 600 μA to 10 A | 600 mA to 10 A | 6 A to 10 A | n/a | | 600 mA to 10 A | n/a | |
| AC clamp | 10 A to 1000 A | n/a | 10 A to 1000 A | n/a | 10 A to 1000 A | | | n/a | |
| Resistance | 60 Ω to 600 MΩ | | 600 Ω to 60 MΩ | 600 Ω to 60 MΩ | | | | 600 Ω to 60 MΩ | |
| Temperature | -40°C to 800°C | | n/a | n/a | -40°C to 400°C | n/a | | n/a | |
| Capacitance | 1 nF to 100 mF | | 1 μF to 10 mF | 1 μF to 10 mF | | | | n/a | 1 μF to 10 mF |
| Frequency | 99 Hz to 500 kHz | | 99 Hz to 99 kHz | 99 Hz to 99 kHz | | | | 99 Hz to 9.9 kHz | |
| Continuity check | ✓ | | ✓ | ✓ | | | | ✓ | |
| Diode check | ✓ | | ✓ | ✓ | | | | n/a | ✓ |
| Conductance | n/a | ✓ | n/a | n/a | | | | n/a | |
| Voltage detection | n/a | | n/a | n/a | | ✓ | | ✓ | n/a |
| Additional Functions | | | | | | | | | |
| AUTO AC/DC V | n/a | | ✓ | n/a | ✓ | | | ✓ | n/a |
| Peak measurement | DC/AC | | DC/AC | n/a | | | | n/a | |
| Low-pass filter | Analog filter Cut-off: 630 Hz | | Digital filter Pass-band: 100/500 Hz | Digital filter Pass-band: 100/500 Hz | | | | Digital filter Pass-band: 100/500 Hz | |
| Display update setting | ✓ | | n/a | n/a | | | | n/a | |
| Hold display value | AUTO/MANUAL | | AUTO/MANUAL | AUTO/MANUAL | | | | AUTO/MANUAL | |
| Max/Min value display | ✓ (Excluding average value display) | | ✓ | ✓ | | | | n/a | |
| Relative display | ✓ | | n/a | ✓ | | | | ✓ | |
| Decibel conversion | ✓ | | n/a | n/a | | | | n/a | |
| Percentage conversion display | ✓ | | n/a | n/a | ✓ | n/a | ✓ | n/a | |
| DC voltage polarity check | ✓ | | ✓ | n/a | | ✓ | | n/a | |
| Data storage | | | | | | | | | |
| Capacity | Max 400 data | | n/a | n/a | | | | n/a | |
| USB communication* ³ | ✓ | | ✓ | ✓ | | | | n/a | |
| Bluetooth® communication* ⁴ | n/a | | ✓ | n/a | | | | n/a | |
| Operating time | | | | | | | | | |
| Continuous operating time | Approx. 100 hours* ⁵ | | Approx. 130 hours* ⁶ | Approx. 130 hours | | | | Approx. 35 hours | |
| Power supply | Alkaline (LR6) battery ×4/ Manganese(R6P) battery ×4 | | Alkaline (LR6) battery ×3 | Alkaline (LR03) battery ×4 | | | | Alkaline (LR03) battery ×1 | |
| Display | | | | | | | | | |
| Back light | ✓ | | ✓ | ✓ | | | | ✓ | |
| Dual display | ✓ | | ✓ | ✓ | | | | n/a | |
| Bar graph display | n/a | | ✓ | ✓ | | | | ✓ | |
| Safety | | | | | | | | | |
| Safety standard categories | CAT III 1000 V, CAT IV 600 V | | CAT III 1000 V, CAT IV 600 V | CAT III 1000 V, CAT IV 600 V | | | | CAT III 600 V, CAT IV 300 V | |
| Mis-insertion prevention shutters | ✓ | | ✓ | n/a | | | | n/a | |
| Circuit breaker false trip prevention | n/a | | n/a | n/a | | | | ✓ | |

*1. Z3210 set product *2. 2000 V is supported only when using the optional DC HIGH VOLTAGE PROBE P2010

*3. Requires optional DT4900-01 Communication Package *4. Requires optional Z3210 wireless adapter *5. When using four AA alkaline batteries *6. When Z3210 is not installed

Glossary

Auto AC/DCV : Automatically detects and measures AC and DC voltage. | **Peak measurement** : After starting PEAK value measurement, check maximum and minimum instantaneous voltage and current values. | **Low-pass filter** : Cuts high frequency content to provide stable numerical values for measurement. | **Display update setting** : Reduces the display value update rate to stabilize measurements. | **Hold display value** : Manual: press the button to freeze the display. Auto: the display freezes automatically when the measurement value is stable. | **Max/Min value display** : Pressing the MAX/MIN button displays the maximum and minimum displayed measurement values. | **Relative display** : Pressing the REL button displays subsequent measurements as values relative to that displayed when the button was pressed. | **Decibel conversion** : Displays AC voltage measurements converted to decibel values (dbm/dbv) | **Percentage conversion display** : Displays 4 to 20 mA (or 0 to 20 mA) signals converted to 0 to 100% values. For the DT4253, only 4 to 20 mA.

High-End DT4281 / DT4282

(Accuracy guaranteed for 1 year)

| DC Voltage | | |
|------------|----------------------|--------------------------------|
| Range | Accuracy | Input Impedance |
| 60.000 mV | ±0.2% rdg. ±25 dgt. | 1 GΩ or more // 100 pF or less |
| 600.00 mV | ±0.025% rdg. ±5 dgt. | |
| 6.0000 V | ±0.025% rdg. ±2 dgt. | 11.0 MΩ ±2% // 100 pF or less |
| 60.000 V | | 10.3 MΩ ±2% // 100 pF or less |
| 600.00 V | ±0.03% rdg. ±2 dgt. | 10.2 MΩ ±2% // 100 pF or less |
| 1000.0 V | | |

| AC Voltage | | | | | | |
|------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Range | Accuracy | | | | | |
| | 20Hz to 45Hz | 45Hz to 65Hz | 65Hz to 1kHz | 1kHz to 10kHz | 10kHz to 20kHz | 20kHz to 100kHz |
| 60.000 mV | ±1.3% rdg. ±60 dgt. | ±0.4% rdg. ±40 dgt. | ±0.0% rdg. ±40 dgt. | ±0.9% rdg. ±40 dgt. | ±1.5% rdg. ±40 dgt. | ±20% rdg. ±80 dgt. |
| 600.00 mV | ±1% rdg. ±60 dgt. | ±0.2% rdg. ±25 dgt. | ±0.3% rdg. ±25 dgt. | ±0.4% rdg. ±25 dgt. | ±0.7% rdg. ±40 dgt. | ±3.5% rdg. ±40 dgt. |
| 6.0000 V | Undefined | ±0.2% rdg. ±25 dgt. | ±0.3% rdg. ±25 dgt. | ±0.4% rdg. ±25 dgt. | Undefined | Undefined |
| 60.000 V | | | | | | |
| 600.00 V | | | | | | |
| 1000.0 V | | | | | | |

| DC V + AC V Measurement | | | | | | | |
|------------------------------|------------------------|---|------------------------|------------------------|------------------------|-------------------------|-----------|
| Range | Accuracy | | | | | | |
| | 20Hz to 45Hz | 45Hz to 65Hz | 65Hz to 1kHz | 1kHz to 10kHz | 10kHz to 20kHz | 20kHz to 100kHz | |
| 6.0000 V | ±1.2% rdg. ±65 dgt. | ±0.3% rdg. ±30 dgt. | ±0.4% rdg. ±30 dgt. | ±0.4% rdg. ±30 dgt. | ±1.5% rdg. ±45 dgt. | ±3.5% rdg. ±125 dgt. | |
| 60.000 V | Undefined | | | ±0.4% rdg. ±30 dgt. | ±0.4% rdg. ±45 dgt. | Undefined | Undefined |
| 600.00 V | | | | | | | |
| 1000.0 V | | | | | | | |
| Input impedance | | 1 MΩ ±4% // 100 pF or less | | | | | |
| Crest factor | | 3 or less (1.5 or less for the 1000.0 V range) | | | | | |
| Accuracy specification range | | 5% or more of each range With the filter ON, accuracy is defined only for frequencies 100 Hz or less. Furthermore, 2% rdg. is added. | | | | | |

| DC A Measurement *1. DT4282 only | | | |
|----------------------------------|----------------------------------|------------------------------------|------------------|
| Range | Accuracy / Display update : slow | Accuracy / Display update : normal | Shunt Resistance |
| 600.00 μA | ±0.05% rdg. ±5 dgt. | ±0.05% rdg. ±25 dgt. | 101 Ω |
| 6000.0 μA | | ±0.05% rdg. ±5 dgt. | |
| 60.000 mA | | ±0.05% rdg. ±25 dgt. | 1 Ω |
| 600.00 mA | ±0.15% rdg. ±5 dgt. | ±0.15% rdg. ±5 dgt. | |
| 6.0000 A ⁺ | ±0.2% rdg. ±5 dgt. | ±0.2% rdg. ±25 dgt. | 10 mΩ |
| 10.000 A ⁺ | | ±0.2% rdg. ±5 dgt. | |

| AC A Measurement *1. DT4282 only | | | | | |
|----------------------------------|---------------------|--|---------------------|---------------------|-------------------|
| Range | Accuracy | | | | |
| | 20Hz to 45 Hz | 45Hz to 65 Hz | 65Hz to 1 kHz | 1kHz to 10 kHz | 10kHz to 20 kHz |
| 600.00 μA | ±1.0% rdg. ±20 dgt. | ±0.6% rdg. ±20 dgt. | ±0.6% rdg. ±20 dgt. | ±2% rdg. ±20 dgt. | ±4% rdg. ±20 dgt. |
| 6000.0 μA | ±1.0% rdg. ±5 dgt. | ±0.6% rdg. ±5 dgt. | ±0.6% rdg. ±5 dgt. | ±2% rdg. ±5 dgt. | ±4% rdg. ±5 dgt. |
| 60.000 mA | ±1.0% rdg. ±20 dgt. | ±0.6% rdg. ±20 dgt. | ±0.6% rdg. ±20 dgt. | ±1% rdg. ±20 dgt. | ±2% rdg. ±20 dgt. |
| 600.00 mA | ±1.0% rdg. ±5 dgt. | ±0.6% rdg. ±5 dgt. | ±0.6% rdg. ±5 dgt. | ±1.5% rdg. ±10 dgt. | Undefined |
| 6.0000 A ⁺ | Undefined | ±0.8% rdg. ±20 dgt. | ±0.8% rdg. ±20 dgt. | Undefined | Undefined |
| 10.000 A ⁺ | Undefined | ±0.8% rdg. ±5 dgt. | ±0.8% rdg. ±5 dgt. | Undefined | Undefined |
| Shunt resistance | | μA Range 101 Ω, mA Range 1Ω, A Range 10 mΩ | | | |
| Crest factor | | 3 or less (Note that it applies to 1/2 of the range.) | | | |
| Accuracy specification range | | Accuracy is not defined for measurements below 5% of range | | | |

| Continuity Check | | | |
|----------------------|--------------------|------------------------------------|-----------------------|
| Range | Accuracy | Measurement Current | Open-terminal Voltage |
| 600.0 Ω | ±0.5% rdg. ±5 dgt. | 640 μA ±10% | DC 2.5 V or less |
| Continuity threshold | | 20 Ω (default), 50 Ω, 100 Ω, 500 Ω | |

| Diode Check | | | |
|-------------------|--------------------|---|-----------------------|
| Range | Accuracy | Measurement Current | Open-terminal Voltage |
| 3.600 V | ±0.1% rdg. ±5 dgt. | 1.2 mA or less | DC 4.5 V or less |
| Forward threshold | | 0.15 V, 0.5 V (default), 1 V, 1.5 V, 2 V, 2.5 V, 3 V If the reading is lower than the threshold during the forward connection, a buzzer sounds and the red backlight turns on. | |

| AC Clamp (AC Current) DT4281 only | | |
|-----------------------------------|---------------------|---------------------|
| Range | Accuracy | |
| | 40 Hz to 65 Hz | 65 Hz to 1 kHz |
| 10.00 A | ±0.6% rdg. ±2 dgt. | ±0.9% rdg. ±2 dgt. |
| 20.00 A | ±0.6% rdg. ±4 dgt. | ±0.9% rdg. ±4 dgt. |
| 50.00 A | ±0.6% rdg. ±10 dgt. | ±0.9% rdg. ±10 dgt. |
| 100.0 A | ±0.6% rdg. ±2 dgt. | ±0.9% rdg. ±2 dgt. |
| 200.0 A | ±0.6% rdg. ±4 dgt. | ±0.9% rdg. ±4 dgt. |
| 500.0 A | ±0.6% rdg. ±10 dgt. | ±0.9% rdg. ±10 dgt. |
| 1000 A | ±0.6% rdg. ±2 dgt. | ±0.9% rdg. ±2 dgt. |

The optional 9010-50, 9018-50, or 9132-50 CLAMP ON PROBE is used.

Accuracy does not include the error of the clamp-on probe.

| | |
|--------------|-----------|
| Crest factor | 3 or less |
|--------------|-----------|

Accuracy is not defined for measurements below 15% of range

| Resistance Measurement | | | |
|------------------------|----------------------|---------------------|-----------------------|
| Range | Accuracy | Measurement Current | Open-terminal Voltage |
| 60.000 Ω | ±0.3% rdg. ±20 dgt. | 640 μA ±10% | DC 2.5 V or less |
| 600.00 Ω | ±0.03% rdg. ±10 dgt. | | |
| 6.0000 kΩ | ±0.03% rdg. ±2 dgt. | 96 μA ±10% | |
| 60.000 kΩ | | 9.3 μA ±10% | |
| 600.00 kΩ | | 0.96 μA ±10% | |
| 6.0000 MΩ | ±0.15% rdg. ±4 dgt. | 96 nA ±10% | |
| 60.00 MΩ | ±1.5% rdg. ±10 dgt. | | |
| 600.0 MΩ | ±3.0% rdg. ±20 dgt. | | |
| | ±8.0% rdg. ±20 dgt. | | |

| Conductance (nS) DT4282 only | | | |
|------------------------------|---------------------|---------------------|----------------------|
| Range | Accuracy | Measurement Current | Open-circuit Voltage |
| 600.00 nS | ±1.5% rdg. ±10 dgt. | 96 nA ±10% | DC 2.5 V or less |

Accuracy is defined for humidity 60% RH or less. Accuracy is defined for the range 20nS or more. In the case of 300 nS or more, ±20 dgt. is added.

| Capacitance Measurement | | | |
|-------------------------|-------------------|---------------------|----------------------|
| Range | Accuracy | Measurement Current | Open-circuit Voltage |
| 1.000 nF | ±1% rdg. ±20 dgt. | 32 μA ±10% | DC 2.5 V or less |
| 10.00 nF | ±1% rdg. ±5 dgt. | | |
| 100.0 nF | | | |
| 1.000 μF | | | |
| 10.00 μF | ±2% rdg. ±5 dgt. | 680 μA ±20% | DC 3.1 V or less |
| 100.0 μF | | | |
| 1.000 mF | | | DC 2.1 V or less |
| 10.00 mF | | | |
| 100.0 mF | | | |

| Temperature | | |
|-------------------|--|-------------------------|
| Thermocouple Type | Range | Accuracy |
| K | -40.0°C to 800.0°C (-40.0°F to 1472.0°F) | ±0.5% rdg. ±3°C (5.4°F) |

The optional K Thermocouple DT4910 is used. Accuracy does not include the error of the K thermocouple.

| Frequency (For AC V, DC + AC V, AC μA, AC mA, AC A) | |
|--|--|
| Range | Accuracy |
| 99.999 Hz | ±0.005% rdg. +3 dgt. |
| 999.99 Hz | |
| 9.9999 kHz | |
| 99.999 kHz | ±0.005% rdg. +3 dgt. |
| 500.00 kHz | |
| Measurement range | 0.5 Hz or more ([---] is displayed when frequency is less than 0.5 Hz) |
| Pulse width | 1 μs or more (DUTY ratio is 50%) |
| With the filter ON, accuracy is defined only for frequencies 100 Hz or less. (For ACV, DC+ACV) | |

| Peak Measurement (For AC V, DC V, DC+AC V, Clamp, DC μA, DC mA, DC A, AC μA, AC mA, AC A) | | |
|---|---------------------------|----------------------|
| Main measurement | Signal width | Accuracy |
| DC V | 4 ms or more (single) | ±2.0% rdg. ±40 dgt. |
| | 1 ms or more (repeated) | ±2.0% rdg. ±100 dgt. |
| Other than DC V | 1 ms or more (single) | ±2.0% rdg. ±40 dgt. |
| | 250 μs or more (repeated) | ±2.0% rdg. ±100 dgt. |

| Decibel Conversion Measurement : Standard impedance (dBm) | |
|--|--|
| 4, 8, 16, 32, 50, 75, 93, 110, 125, 135, 150, 200, 250, 300, 500, 600, 800, 900, 1000, 1200 Ω (default: 600 Ω) | |

High-End General Specifications

| Durability | |
|--------------------------------------|---|
| Drop proof | Yes |
| Operating temperature and humidity*1 | -15°C to 55°C |
| Storage temperature and humidity*2 | -30°C to 60°C |
| Applicable standards | Safety: EN61010, EMC: EN61326; Waterproof and dustproof: IP40 |

*1. -15°C to 55°C (5°F to 131°F), Up to 40°C (104°F): at 80% RH or less (non-condensating),
40°C to 45°C (104°F to 113°F): at 60% RH or less (non-condensating),
45°C to 55°C (113°F to 131°F): at 50% RH or less (non-condensating)
*2. 80%RH or less (non-condensating)

Dimensions/Weight

93W × 197H × 53D mm (3.66”W × 7.76”H × 2.09”D),
650 g (23 oz.) (including batteries)

| Safety | |
|--|---|
| Maximum rated voltage between input terminals and ground | CAT III 1000 V, CAT IV 600 V |
| Maximum rated voltage between terminals | Between the V and COM terminals: 1000 V DC/AC |
| Maximum rated current between terminals | Between the mA and COM terminals: 600 mA DC/600 mA AC Between the A and COM terminals: 10 A DC/10 A AC |

Included accessories

TEST LEAD L9207-10*, Instruction Manual, LR6 alkaline battery × 4
*Replaced by the probe L9300 starting with batches manufactured in March, 2025

New Standard DT4261
(Accuracy guaranteed for 1 year)

| DC Voltage | | |
|------------|---------------------|-----------------|
| Range | Accuracy*1 | Input Impedance |
| 600.0 mV | ±0.15% rdg. ±5 dgt. | 11.3 MΩ ± 2.0% |
| 6.000 V | | |
| 60.00 V | | 10.4 MΩ ± 2.0% |
| 600.0 V | | |
| 1000 V | ±0.15% rdg. ±5 dgt. | 10.3 MΩ ± 1.5% |
| 2000 V*2 | ±0.5% rdg. ±5 dgt. | 20 MΩ ± 5.0% |

*1. Add ±1 dgt. when measuring at or below 5% of range
*2. 2000 V is supported only when using the optional DC HIGH VOLTAGE PROBE P2010

| AC Voltage | | | |
|------------------------------|--|--------------------|----------------------------------|
| Range | Accuracy | | Input Impedance |
| | 40 Hz to 500 Hz | 500 Hz to 1 kHz | |
| 6.000 V | ±0.9% rdg. ±3 dgt. | ±1.5% rdg. ±3 dgt. | 11.3 MΩ ± 2.0% // 100 pF or less |
| 60.00 V | | | 10.4 MΩ ± 2.0% // 100 pF or less |
| 600.0 V | | | 10.3 MΩ ± 1.5% // 100 pF or less |
| 1000 V | | | |
| Crest factor | 3 at up to 4000 counts and reduces linearly to 2 at 6000 counts. 1000 V range only: 2 at up to 750 counts, linearly decreasing to 1.5 at 1000 counts. | | |
| Accuracy specification range | For ACV, minimum 1% of range; add ±5 dgt. when measuring at or below 5% of range. | | |

| DC A Measurement | | |
|------------------------------|---|-----------------|
| Range | Accuracy | Input Impedance |
| 600.0 mA | ±0.5% rdg. ±3 dgt. | 35 mΩ ±30% |
| 6.000 A | | |
| 10.00 A | | |
| Accuracy specification range | Add ±2 dgt. when measuring at or below 5% of range. | |

| AC A Measurement | | | |
|------------------------------|--------------------|---|-----------------|
| Range | Accuracy | | Input Impedance |
| | 40 Hz to 500 Hz | 500 Hz to 1 kHz | |
| 600.0 mA | ±1.4% rdg. ±3 dgt. | ±1.8% rdg. ±3 dgt. | 35 mΩ ±30% |
| 6.000 A | | | |
| 10.00 A | | | |
| Crest factor | | 3 at up to 4000 counts and reduces linearly to 2 at 6000 counts. | |
| Accuracy specification range | | For ACV, minimum 1% of range; add ±5 dgt. when measuring at or below 5% of range. | |

| Continuity Check | | | |
|--------------------------|--|---------------------|-----------------------|
| Range | Accuracy | Measurement Current | Open-terminal Voltage |
| 600.0 Ω | ±0.7% rdg. ±5 dgt. | Approx. 200 μA | DC 2.0 V or less |
| Continuity ON threshold | Approx. 25 Ω or less (continuous buzzer sound, red backlight on) | | |
| Continuity OFF threshold | Approx. 245 Ω or more (buzzer sound off, red backlight off) | | |

| Diode Check | | | |
|-------------------|--|---------------------|-----------------------|
| Range | Accuracy | Measurement Current | Open-terminal Voltage |
| 1.800 V | ±0.5% rdg. ±5 dgt. | Approx. 200 μA | DC 2.0 V or less |
| Forward threshold | Intermittent buzzer sound at 0.15 V to 1.8 V, continuous buzzer sound at less than 0.15 V, red backlight on. | | |

| AC Clamp (AC Current) | | |
|-----------------------|--------------------|--------------------|
| Range | Accuracy | |
| | 40 Hz to 500 Hz | 500 Hz to 1 kHz |
| 10.00 A | ±0.9% rdg. ±3 dgt. | ±1.5% rdg. ±3 dgt. |
| 20.00 A | | |
| 50.0 A | | |
| 100.0 A | | |
| 200.0 A | | |
| 500 A | | |
| 1000 A | | |

The optional 9010-50, 9018-50, or 9132-50 CLAMP ON PROBE is used.
Accuracy does not include the error of the clamp-on probe.
Crest factor 3 or less
Accuracy specification range Minimum 1% of range; add ±5 dgt. when measuring at or below 5% of range

| Resistance Measurement | | | |
|------------------------------|--------------------|--|-----------------------|
| Range | Accuracy | Measurement Current | Open-terminal Voltage |
| 600.0 Ω | ±0.7% rdg. ±5 dgt. | Approx. 200 μA | DC 2.0 V or less |
| 6.000 kΩ | | Approx. 100 μA | |
| 60.00 kΩ | | Approx. 10 μA | |
| 600.0 kΩ | ±0.9% rdg. ±3 dgt. | Approx. 1 μA | |
| 6.000 MΩ | | Approx. 100 nA | |
| 60.00 MΩ | | Approx. 10 nA | |
| Accuracy guarantee condition | | After zero adjustment has been performed | |

| Capacitance Measurement | | | |
|-------------------------|---------------------|-------------------------------|-----------------------|
| Range | Accuracy | Measurement Current | Open-terminal Voltage |
| 1.000 μF | ±1.9% rdg. ±5 dgt. | Approx. 10 nA, 100 nA, 1 μA | DC 2.0 V or less |
| 10.00 μF | | Approx. 100 nA, 1 μA, 10 μA | |
| 100.0 μF | | Approx. 1 μA, 10 μA, 100 μA | |
| 1.000 mF | | Approx. 10 μA, 100 μA, 200 μA | |
| 10.00 mF | ±5.0% rdg. ±20 dgt. | Approx. 100 μA, 200 μA | |

| Frequency | |
|-----------------------|--------------------|
| Range | Accuracy |
| 99.99 Hz | ±0.1% rdg. +1 dgt. |
| 999.9 Hz | |
| 9.999 kHz | |
| 99.99 kHz (V AC Only) | |

New Standard General Specifications

| Durability | |
|--------------------------------------|---|
| Drop proof | Yes |
| Operating temperature and humidity*1 | -25°C to 65°C |
| Storage temperature and humidity*2 | -30°C to 70°C |
| Applicable standards | Safety: EN61010, EMC: EN61326; Waterproof and dustproof: IP54*3 |

*1: 80% RH or less at up to 40°C (non-condensating), linearly decreases from 80% RH at 40°C to 25% RH or less at 65°C (non-condensating)

*2: 80% RH or less (non-condensating) *3: Do not use in wet conditions.

| Dimensions/Weight |
|---|
| 87W × 185H × 47D mm (3.43"W × 7.28"H × 1.85"D), 480 g (16.9 oz.) (including batteries) |

| Safety | |
|--|--|
| Maximum rated voltage between input terminals and ground | CAT III 1000 V, CAT IV 600 V |
| Maximum rated voltage between terminals | Between the V and COM terminals: 1000 V DC/AC |
| Maximum rated current between terminals | Between the A and COM terminals: 10 A DC/10 A AC |

Included accessories

TEST LEAD L9300, Instruction Manual, LR6 alkaline battery × 3

Standard DT4252 / DT4253 / DT4255 / DT4256

(Accuracy guaranteed for 1 year)

| DC Voltage | | |
|----------------------------------|----------------------|-----------------|
| Range | Accuracy | Input Impedance |
| High precision 600 mV range*1 | ±0.2% rdg. ±5 dgt. | 10.2 MΩ ±1.5% |
| 600.0 mV | ±0.3% rdg. ±3 dgt.*2 | 11.2 MΩ ±2.0% |
| 6.000 V | | 10.3 MΩ ±2.0% |
| 60.00 V | | 10.2 MΩ ±1.5% |
| 600.0 V | | |
| 1000 V | | |

*1: DT4252 only

*2: DT4252, DT4256 only. DT4252, DT4253 : ±5 dgt.

| AC Voltage | | | |
|------------|--------------------|-------------------------|---------------------------------|
| Range | Accuracy | | Input Impedance |
| | 40 Hz to 500 Hz | 500 Hz or more to 1 kHz | |
| 6.000 V | ±0.9% rdg. ±3 dgt. | ±1.8% rdg. ±3 dgt. | 11.2 MΩ ±2.0% // 100 pF or less |
| 60.00 V | | | 10.3 MΩ ±2.0% // 100 pF or less |
| 600.0 V | | | 10.2 MΩ ±1.5% // 100 pF or less |
| 1000 V | | | |

| AUTO V (Identification) DT4253, DT4255, DT4256 only | | | |
|---|---|-------------------------|-----------------|
| Range | Accuracy | | Input Impedance |
| | DC, 40 Hz to 500 Hz | 500 Hz or more to 1 kHz | |
| 600.0 V | ±2.0% rdg. ±3 dgt. | ±4.0% rdg. ±3 dgt. | 900 kΩ ±20% |
| Crest factor | 3 at up to 4000 counts and reduces linearly to 2 at 6000 counts. | | |
| Accuracy specification range | For AC V, minimum 1% of range; add ±5 dgt. when measuring at or below 5% of range. With the filter ON, the accuracy is not specified at 100 Hz/500 Hz or more. | | |

| DC A Measurement DT4252, DT4253, DT4256 only | | |
|--|----------------------|-----------------|
| Range | Accuracy | Input Impedance |
| 60.00 μA | ±0.8% rdg. ±5 dgt. | 1 kΩ ±5% |
| 600.0 μA | ±0.8% rdg. ±5 dgt. | 1 kΩ ±5% |
| 6.000 mA | ±0.8% rdg. ±5 dgt. | 15 Ω ±40% |
| 60.00 mA | ±0.8% rdg. ±5 dgt.*1 | 15 Ω ±40%*1 |
| 600.0 mA | ±0.9% rdg. ±5 dgt. | 35 mΩ ±30% |
| 6.000 A | ±0.9% rdg. ±3 dgt.*2 | 35 mΩ ±30% |
| 10.00 A | ±0.9% rdg. ±3 dgt.*2 | 35 mΩ ±30% |

●DT4252 ●DT4253 ●DT4256

*1: DT4256: ±1.8% rdg. ±15 dgt. Input Impedance: 35 mΩ ±30%

*2: DT4252: ±0.9% rdg. ±5 dgt.

| AC A Measurement | | | DT4252, DT4256 only |
|------------------------------|---|-------------------------|---------------------|
| Range | Accuracy | | Input Impedance |
| | 40 Hz to 500 Hz | 500 Hz or more to 1 kHz | |
| 600.0 mA* ¹ | ±1.4% rdg. ±5 dgt. | ±1.8% rdg. ±5 dgt. | 35 mΩ ±30% |
| 6.000 A | ±1.4% rdg. ±3 dgt. | ±1.8% rdg. ±3 dgt. | |
| 10.00 A | | | |
| Crest factor | 3 at up to 4000 counts and reduces linearly to 2 at 6000 counts. | | |
| Accuracy specification range | Minimum 1% of range; add ±5 dgt. when measuring 300 counts or less. | | |

*1. DT4256 only

*1: DT4256 only

| Electric Charge DT4255, DT4256 only | | |
|-------------------------------------|-------------------------|----------------------------|
| Range | Detection voltage range | Detection Target Frequency |
| Hi | AC 40 V to AC 600 V | 50 Hz / 60 Hz |
| Lo | AC 80 V to AC 600 V | |

During voltage detection, a continuous buzzer sounds and the red LED lights up.

| Continuity Check | | | |
|--------------------------|--|---------------------|-----------------------|
| Range | Accuracy | Measurement Current | Open-terminal Voltage |
| 600.0 Ω | ±0.7% rdg. ±5 dgt. | Approx. 200 μA | DC 1.8 V or less |
| Continuity ON threshold | Approx. 25 Ω or less (continuous buzzer sound, red LED lights) | | |
| Continuity OFF threshold | Approx. 245 Ω or more | | |

| Diode Check | | | |
|-------------------|--|---------------------|-----------------------|
| Range | Accuracy | Measurement Current | Open-terminal Voltage |
| 1.500 V | ±0.5% rdg. ±5 dgt.*1 | Approx. 0.5 mA | DC 5.0 V or less |
| Forward threshold | Buzzer sound intermittently at 0.15 V to 1.5 V, the red LED flashes. | | |

*1: DT4255 : ±0.5% rdg. ±8 dgt.

| AC Clamp (AC Current) DT4253, DT4255, DT4256 only | |
|---|--------------------|
| Range | Accuracy |
| | 40 Hz to 1 kHz |
| 10.00 A | ±0.9% rdg. ±3 dgt. |
| 20.00 A | |
| 50.0 A | |
| 100.0 A | |
| 200.0 A | |
| 500 A | |
| 1000 A | |

The optional 9010-50, 9018-50, or 9132-50 CLAMP ON PROBE is used.
Accuracy does not include the error of the clamp-on probe.

| | |
|------------------------------|--|
| Crest factor | 3 or less |
| Accuracy specification range | Minimum 1% of range; add ±5 dgt. when measuring at or below 5% of range. |

| Resistance Measurement | | | |
|------------------------|----------------------|---------------------|-----------------------|
| Range | Accuracy | Measurement Current | Open-terminal Voltage |
| 600.0 Ω | ±0.7% rdg. ±5 dgt. | Approx. 200 μA | DC 1.8 V or less |
| 6.000 kΩ | ±0.7% rdg. ±3 dgt.*1 | Approx. 100 μA | |
| 60.00 kΩ | | Approx. 10 μA | |
| 600.0 kΩ | | Approx. 1 μA | |
| 6.000 MΩ | ±0.9% rdg. ±3 dgt.*1 | Approx. 100 nA | |
| 60.00 MΩ | ±1.5% rdg. ±3 dgt.*1 | Approx. 10 nA | |

Accuracy guarantee condition After zero adjustment has been performed.

*1: DT4252, DT4253 : ±5 dgt.

| Capacitance Measurement | | | |
|-------------------------|---------------------|-------------------------------|-----------------------|
| Range | Accuracy | Measurement Current | Open-terminal Voltage |
| 1.000 μF | ±1.9% rdg. ±5 dgt. | Approx. 10 nA, 100 nA, 1 μA | DC 1.8 V or less |
| 10.00 μF | | Approx. 100 nA, 1 μA, 10 μA | |
| 100.0 μF | | Approx. 1 μA, 10 μA, 100 μA | |
| 1.000 mF | | Approx. 10 μA, 100 μA, 200 μA | |
| 10.00 mF | ±5.0% rdg. ±20 dgt. | Approx. 100 μA, 200 μA | |

| Temperature | | DT4253 only |
|-------------------|---|-----------------|
| Thermocouple Type | Range | Accuracy |
| K | -40.0°C to 400.0°C (-40.0°F to 752.0°F) | ±0.5% rdg. ±2°C |

The optional K Thermocouple DT4910 is used. Accuracy does not include the error of the K thermocouple.

Standard General Specifications

| Durability | |
|--|--|
| Drop proof | Yes |
| Operating temperature and humidity ^{*1} | -25°C to 65°C (DT4254, DT4255, DT4256) -10°C to 50°C (DT4252, DT4253) |
| Storage temperature and humidity ^{*2} | -30°C to 70°C (DT4254, DT4255, DT4256) -30°C to 60°C (DT4252, DT4253) |
| Applicable standards | IP40 (When operating), IP42 (While in storage) ^{*3} |

^{*1} 1. -10°C to 50°C(14°F to 122°F), Up to 40°C(104°F): at 80% RH or less(non-condensating),
40°C to 45°C (104°F to 113°F): at 60% RH or less(non-condensating),
45°C to 55°C (113°F to 131°F): at 50% RH or less (non-condensating)
2. Up to 40°C(104°F): at 80% RH or less(non-condensating),
40°C to 65°C (104°F to 149°F): reduces linearly 80% RH to 25% RH or less
^{*2} 80% RH or less (non-condensating)
^{*3} Do not use in wet conditions. Excludes measuring terminals

| Dimensions/Weight |
|---|
| 84W × 174H × 52D mm (3.31″W × 6.85″H × 2.05″D), 390 g (13.8 oz.) (including batteries and holster) |

| Frequency | |
|-----------------------|--------------------|
| Range | Accuracy |
| 99.99 Hz | ±0.1% rdg. +1 dgt. |
| 999.9 Hz | |
| 9.999 kHz | |
| 99.99 kHz (V AC only) | |

| Safety | |
|--|--|
| Maximum rated voltage between input terminals and ground | CAT III 1000 V, CAT IV 600 V |
| Maximum rated voltage between terminals | Between the V and COM terminals: DC 1000 V, AC 1000 V |
| Maximum rated current between terminals | Between the A and COM terminals: DC 10 A / AC 10 A (DT4252, DT4256) Between the μ A, mA and COM terminals: DC 60 mA (DT4253 only) |

Your instrument can be used to measure voltages in excess of 1000 V DC if and only if both of the following conditions are satisfied:
1. The circuit under measurement is isolated from the commercial power grid.
2. The circuit under measurement is isolated from ground.

Included accessories

TEST LEAD L9207-10*, Instruction Manual, LR03 Alkaline battery × 4,
Holster (attached to the instrument, with a test lead holder)
^{*}Replaced by the probe L9300 starting with batches manufactured in March, 2025

Pocket DT4223 / DT4224
(Accuracy guaranteed for 1 year)

| DC Voltage | | |
|------------|--------------------|-----------------|
| Range | Accuracy | Input Impedance |
| 600.0 mV | ±0.5% rdg. ±5 dgt. | 11.2 MΩ ±2.0% |
| 6.000 V | | |
| 60.00 V | | 10.3 MΩ ±2.0% |
| 600.0 V | | 10.2 MΩ ±1.5% |

| AC Voltage | | | |
|------------------------------|---|-------------------------|---------------------------------|
| Range | Accuracy | | Input Impedance |
| | 40 Hz to 500 Hz | 500 Hz or more to 1 kHz | |
| 6.000 V | ±1.0% rdg. ±3 dgt. | ±2.5% rdg. ±3 dgt. | 11.2 MΩ ±2.0% // 100 pF or less |
| 60.00 V | | ±2.0% rdg. ±3 dgt. | 10.3 MΩ ±2.0% // 100 pF or less |
| 600.0 V | | | 10.2 MΩ ±1.5% // 100 pF or less |
| Crest factor | 3 at up to 4000 counts and reduces linearly to 2 at 6000 counts. | | |
| Accuracy specification range | For AC V, minimum 1% of range; add ±5 dgt. when measuring at or below 5% of range. With the filter ON,the accuracy is not specified in 100/500 Hz or more. | | |

| AUTO V (Identification) | | | DT4223 only |
|------------------------------|---|-------------------------|-----------------|
| Range | Accuracy | | Input Impedance |
| | DC, 40 Hz to 500 Hz | 500 Hz or more to 1 kHz | |
| 600.0 V | ±2.0% rdg. ±3 dgt. | ±4.0% rdg. ±3 dgt. | 900 kΩ ±20% |
| Crest factor | 3 at up to 4000 counts and reduces linearly to 2 at 6000 counts. | | |
| Accuracy specification range | For AC V, minimum 1% of range; add ±5 dgt. when measuring at or below 5% of range. With the filter ON,the accuracy is not specified in 100/500 Hz or more. | | |

| Electric Charge | | DT4223 only |
|-------------------------|----------------------------|-------------|
| Detection Voltage Range | Detection Target Frequency | |
| AC 80 V to AC 600 V | 50 Hz / 60 Hz | |

During voltage detection, a continuous buzzer sounds.

| Continuity Check | | | |
|------------------|--------------------|---------------------|-----------------------|
| Range | Accuracy | Measurement Current | Open-terminal Voltage |
| 600.0 Ω | ±1.0% rdg. ±5 dgt. | Approx. 200 μ A | DC 2.0 V or less |

| | |
|--------------------------|--|
| Continuity ON threshold | Approx. 25 Ω or less (continuous buzzer sound) |
| Continuity OFF threshold | Approx. 245 Ω or more |

| Diode Check | | | DT4224 only |
|-------------|--------------------|---------------------|-----------------------|
| Range | Accuracy | Measurement Current | Open-terminal Voltage |
| 1.500 V | ±0.9% rdg. ±5 dgt. | Approx. 0.2 mA | DC 2.5 V or less |

| Resistance Measurement | | | |
|------------------------------|--------------------|---|-----------------------|
| Range | Accuracy | Measurement Current | Open-terminal Voltage |
| 600.0 Ω | ±0.9% rdg. ±5 dgt. | Approx. 200 μ A | DC 2.0 V or less |
| 6.000 kΩ | | Approx. 100 μ A | |
| 60.00 kΩ | | Approx. 10 μ A | |
| 600.0 kΩ | | Approx. 1 μ A | |
| 6.000 MΩ | | Approx. 100 nA | |
| 60.00 MΩ | ±1.5% rdg. ±5 dgt. | Approx. 10 nA | |
| Accuracy guarantee condition | | After zero adjustment has been performed. | |

| Capacitance Measurement | | | DT4224 only |
|-------------------------|---------------------|--|-----------------------|
| Range | Accuracy | Measurement Current | Open-terminal Voltage |
| 1.000 μ F | ±1.9% rdg. ±5 dgt. | Approx. 10 nA, 100 nA, 1 μ A | DC 2.0 V or less |
| 10.00 μ F | | Approx. 100 nA, 1 μ A, 10 μ A | |
| 100.0 μ F | | Approx. 1 μ A, 10 μ A, 100 μ A | |
| 1.000 mF | | Approx. 10 μ A, 100 μ A, 200 μ A | |
| 10.00 mF | ±5.0% rdg. ±20 dgt. | Approx. 100 μ A, 200 μ A | |

| Frequency | |
|-----------|--------------------|
| Range | Accuracy |
| 99.99 Hz | ±0.1% rdg. +2 dgt. |
| 999.9 Hz | |
| 9.999 kHz | |

Pocket General Specifications

| Durability | |
|--|--|
| Drop proof | Yes |
| Operating temperature and humidity* ¹ | -10°C to 65°C (DT4223, DT4224) |
| Storage temperature and humidity* ² | -30°C to 70°C (DT4223, DT4224) |
| Applicable standards | IP40 (When operating), IP42 (While in storage)* ³ |

*1. -10°C to 50°C (14°F to 122°F), Up to 40°C (104°F): at 80% RH or less (non-condensing),
40°C to 45°C (104°F to 113°F): at 60% RH or less (non-condensing),
45°C to 65°C (113°F to 122°F): at 50% RH or less (non-condensing)

*2. 80% RH or less (non-condensing)

*3. Do not use in wet conditions. Excludes measuring terminals.

| Dimensions/Weight |
|--|
| 72W × 149H × 38D mm (2.83"W × 5.87"H × 1.50"D), 190 g (6.7 oz.) (including batteries and holster) |

| Safety | |
|--|--|
| Maximum rated voltage between input terminals and ground | CAT III 600 V, CAT IV 300 V |
| Maximum rated voltage between terminals | Between the V and COM terminals: 600 V DC/AC |

Included accessories

TEST LEAD DT4911, Instruction Manual, LR03 Alkaline battery × 1,
Holster (attached to the instrument, with a test lead holder)

Models



| High-end models | | |
|---------------------------|--------|--------|
| Model no. (order code) | DT4281 | DT4282 |



| New standard model | | |
|---------------------------|--------|------------|
| Model no. (order code) | DT4261 | DT4261-90* |

*Z3210 set product



| Standard models | | | | |
|---------------------------|--------|--------|--------|--------|
| Model no. (order code) | DT4252 | DT4253 | DT4255 | DT4256 |



| Pocket models | | |
|---------------------------|--------|--------|
| Model no. (order code) | DT4223 | DT4224 |

Accessories/Options

L9300 / L9207-10 / DT4911 Options (Included accessories)

DT4261 (Included accessory)



TEST LEAD L9300

Cable length 95 cm (3.12 ft)
Integrated cap and protective finger guard

Exposed tip metal pin: short
CAT III 1000 V, CAT IV 600 V
Exposed tip metal pin: long

DT4280/DT4250 Series (Included accessory*)

Replaced by the probe L9300 starting with batches manufactured in March, 2025.



TEST LEAD L9207-10

Cable length 90 cm (2.95 ft)
with one each red and black caps

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

DT4220 Series (Included accessory)

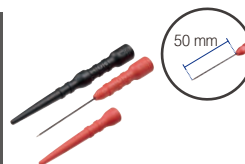


TEST LEAD DT4911

Cable length 54 cm (1.77 ft)
with one each red and black caps

with cap
CAT IV 300 V, CAT III 600 V
without cap
CAT II 600 V

The L4933 and L4934 can be attached to the tip of the L9300, L9207-10 and DT4911. When attaching them, make sure they are in the measuring category-II-state (with the caps removed for the L9207-10 and DT4911).



Rated voltage: AC 30 V, DC 60 V
Rated current: 3 A

CONTACT PIN SET L4933



CAT III 300 V, CAT II 600 V
Rated current: 3 A

SMALL ALLIGATOR CLIP SET L4934

Option for DT4261: DC HIGH VOLTAGE PROBE P2010



DC HIGH VOLTAGE PROBE P2010

Cable length 150 cm (4.92 ft)*
*Probe side
CAT III 2000 V

P2010 Specifications

| | | | |
|--------------------------------------|---|--|--|
| Maximum input voltage | 2000 V DC (max. rated voltage between INPUT H-INPUT L) *Not available for AC voltage measurement | OUTPUT terminal | 4 mm banana terminal |
| Maximum rated line-to-ground voltage | 2000 V (measurement category III), Anticipated transient overvoltage: 15000 V 1000 V (measurement category IV), Anticipated transient overvoltage: 12000 V | Operating environment | Indoor use, pollution degree 2, altitude up to 2000 m (6562 ft.) |
| Input resistance | 20 MΩ ±5.0% (between INPUT H and INPUT L, when OUTPUT terminal is open) | Operating temperature and humidity range | Temperature: -25°C to 65°C (-13°F to 149°F) Humidity: ~25°C to 40°C (~13°F to 104°F): 80% RH or less (non-condensing) 40°C to 65°C (104°F to 149°F): Linearly reduces from 80% RH or less at 40°C (104°F) to 25% RH or less at 65°C (149°F) (non-condensing) |
| Output ratio | 1/10 or 1/11 (Depends on the compatible product) | Storage temperature and humidity range | -30°C to 70°C (-22°F to 158°F) 90% RH or less (non-condensing) |
| Overload protection | 2200 V DC/2200 V AC (applied for 1 minute) (between INPUT H and INPUT L) 600 V DC/600 V AC (applied for 1 minute) (between OUTPUT H and OUTPUT L) | Standards | EN 61010 |
| | | Product warranty period | 3 years (probe body and cable part are not covered by warranty) |
| | | Included accessories | Instruction Manual ×1, Operating Precautions ×1 |

L4930 Options

Compatible DMMs: DT4261, DT4250 Series, DT4280 Series

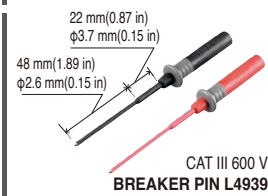
CONNECTION CABLE L4930

Length : 1.2 m (3.937 ft)

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



TEST PIN SET L4938



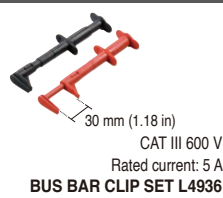
BREAKER PIN L4939



ALLIGATOR CLIP SET L4935



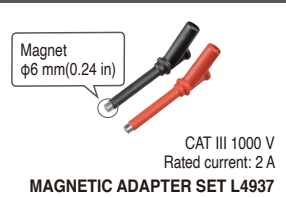
TEST PIN SET L4932



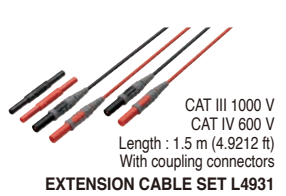
BUS BAR CLIP SET L4936



GRABBER CLIP L9243






MAGNETIC ADAPTER SET L4937



EXTENSION CABLE SET L4931

AC CLAMP ON PROBES for DT4281, DT4261, DT4253, DT4255, DT4256 (Adapter 9704 required for connection)

| Product appearance |  |  |  |
|-------------------------------------|---|---|--|
| Model number | 9010-50 | 9018-50 | 9132-50 |
| Rated current | AC 10 A, 20 A, 50 A, 100 A, 200 A, 500 A | | AC 20 A, 50 A, 100 A, 200 A, 500 A, 1000 A |
| Amplitude accuracy (45 Hz to 66 Hz) | ±2% rdg. ±1% f.s. | | ±3% rdg. ±0.2% f.s. |
| Frequency characteristics | 40 Hz to 1 kHz:±6% rdg. | | 40 Hz to 1 kHz:±1% rdg. |
| Output rate | AC 0.2 V f.s. (For each range) | | |
| Max. circuit voltage | AC 600 V (50/60 Hz) | | |
| Diameter | φ46 mm (1.81 in) or less | | φ55 mm (2.17 in) or less, 80 × 20 mm (3.15 × 0.79 in) |
| Dimensions, mass | 78W × 188H × 35D mm (3.07"W × 7.40"H × 1.38"D), 420 g (14.8 oz.), cord length 3 m (9.84 ft) | | 100W × 224H × 35D mm (3.94"W × 8.82"H × 1.38"D), 600 g (21.1 oz.), cord length 3 m (9.84 ft) |

Adapter Model 9704 is required to connect AC CLAMP ON PROBES 9010-50, 9018-50 and 9132-50 to the DT4281, DT4261, DT4253, DT4255, DT4256.



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



MAGNETIC STRAP Z5004



MAGNETIC STRAP Z5020



WIRELESS ADAPTER Z3210

For DT4261
Enables Bluetooth® communication



CARRYING CASE C0200

DT4220 Series



CARRYING CASE C0202

DT4250, DT4280 Series, DT4261



CARRYING CASE C0201

DT4250 Series

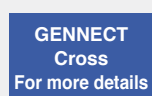


CARRYING CASE C0207

Bag type for use with all field products

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