HIOKI

DIGITAL MULTIMETER DT4261

NEW

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Supports wireless communication to increase work efficiency

Transfer Data To Tablet Wirelessly!

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Bluetooth[®] wireless technology support for recording and managing measurement data



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









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.

Screen 2







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



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

Supports Measurements up to DC 2000V for PV Solar Systems with DC High Voltage Probe P2000*



World's First CAT III 2000V High Voltage Probe

The New Standard For Large Scale Solar Farms Maintenance. *Launching soon in Dec 2021. (Optional Item. Does not comes with DT4261)

Other Specifications				
perating Environment Indoor use, pollution degree 2, altitude up to 2000 m				
Operating Temperature and Humidity Range	Temperature: -25° C ~ 65° C Humidity: -25° C ~ 40° C 80% RH or less (non-condensing) From 40°C ~ 65°C 40 °C 80% from RH or less to 65°C 25% RH or less Linearly decreasing (non-condensing)			
Applicable Standards	Safety EN 61010			
Maximum input voltage (Max. rated voltage between INPUT H-INPUT L)	DC 2000 V			
Maximum Rate Voltage to Earth	2000 V (Measurement CAT III) 1000 V (Measurement CAT IV) Anticipated transient overvoltage 15000 V			
Target Connected Device Measurement Category	Measured CAT III 1000V or higher			
Input Resistance	20M Ω \pm 1.0% (between INPUT H – INPUT L)			
Partial Pressure Ratio	Depends on the input impedance of the connected device(Example: 10:1 when a device with an input impedance of 10M Ω is connected)			

Other Specifications			
Low-pass filter Passband	pand 33 Hz (-3 dB \pm 1 dB) *0dB at DC input		
Overload Protection	DC 2200 V/ AC 2200 V 1 minutes (between INPUT H – INPUTO L)		
Secondary Terminal	4 mm banana terminal		
Secondary terminal Protection Voltage	DC 600 V/ AC 600 V 1 minutes (between OUTPUT H – OUTPUT L)		
Weight	300 g ± 30 g		
Dust and Water Resistance	IP none , EN 60529		
	L4933 connection cable		
Accessories	Strap with buckle		
Accessories	Instruction manual		
	Usage Precautions (0990A907)		
Product Warranty Period	3 years (Test lead part and cable part are not covered by warranty)		

Accuracy Chart		
Model Combination Accuracy Specifications		
DT4261	±0.5% rdg ±5 dgt	



NEW The Engineer's New BEST Multimeter

Supports wireless communication to increase work efficiency DC V typical accuracy: ±0.15% rdg. ±2 dgt. Measurement categories: CAT III (1000 V), CAT IV (600 V)



Multi-functional, for on-site maintenance DT4261

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

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
AC clamp-on measurement Resistance	Frequency Continuity check
Resistance	Continuity check

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.

NEW DT4261Kit (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.

🚯 Bluetooth



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.

Waveforms Monitoring & Harmonics Analysis



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.



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.



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.



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.



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.



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.





Electric viries 100 V 200 V viries 100 V 200 V Service wires TV: 100 V 200 V Line voltage: TV: 100 V 200 V Air conditione: 200 V Ground (0 V)



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 model	e C	

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 DT4200 series

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



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



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



Drop tester



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



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.

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

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.

True RMS measurement for accurate measurement of even distorted current waveforms





measured value 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.

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.



New L9300 test leads with integrated cap*



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!

*Standard accessory for DT4261

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.



Safe testers that protect workers from dangerous accidents





To prevent an accident, a warning function immediately notifies the operator if the DT4261 receives excessively high input.

Hazard Wrong insertion 2 may lead to short-circuits.



The 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.



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





The DT4261 eliminate the root cause of such accidents by providing clamp-on sensorbased current measurement functionality instead of using conventional probes.

DT4261 Design Improvements



Rotary Switch Flushed with The Digital Multimeter Surface!

The new DT4261 has its rotary switch flushed to the surface! As such, when the front side of the DT4261 is placed against a flat plane, the digital multimeter sits evenly on the surface. In previous DMM designs, the rotary switch protrudes from the multimeter's surface. Thus, when placed against a flat plane, the uneven DMM surface brings about unwanted jerky movements to the multimeter.



Slimmer and Easier to Hold with One Hand!

The new DT4261 is slimmer and easier to grip with one hand. Unlike previous DMM models from the DT425x and DT428x series, DT4261 is designed to allow engineers to hold comfortable with one hand.



Detach the stand easily without Screwdrivers!

Unlike other DMM models from the DT4200 series, the DT4261 stand can be easily removed without screw drivers. Coins and keys can easily remove the stand – this is especially hand for engineers on site without having many tools with them.

DT4200 Series Basic Comparison Good, Better, Best, Supreme

		•	NEW
	GOOD	BETTER	BEST SUPREME
Properties	Terretaria ******* Add terretaria ********* Batta Terretaria 50007 60007	Attende Markets Markets	Image: Section of the section of t
DC V baole eccuracy	±0.5% rdg. ±5 dgt.	±0.3% rdg. ±5 dgt. ±0.3% rdg. ±3 dgt.	10.15% rdg. 12 dgt. 20.025% rdg. 22 dgt.
DEXTACY	n/a	n/a	6V to 1000V 6V to 1000V
DC Yohap	609 mV to 600 V	600 mV to 1009 V 600 mV to 1900 V 1500 V	60 mV to 1000 V
AC Voltage	6 V to 600 V	5V to 1000V	6V to 1000V 60 mV to 1000 V
DC A Current	n/a	6 A 10 10 A 64 µA 10 60 nA 10 10 A 60 nA 10 80 A	60 mA to 10 A 600 µA to 600 mA 600 µA to 3
AC A Correct	n/a	6 6 to 10 A 0/0 who 10 A	60 mA to 10 A 600 µA to 600 µA to 5
Frequency	99 Hz to 9.9 kHz	99 Hz to 99 kHz	199 Hz to 500 MHz 99 Hz to 500 kHz
Prak Measurement	n/a	n/a	oc/AC DC/AC
Switce3 Commonitation	n/a	n/a	YES (with 23210) n/a
Waveform Monitoring	n/a	e/a	YKS (with 23210) n/a
Hermonics Assigns	n/a	e/a	YES (with 23210) n/a
Weight (with Balteries)	190g	390g	480g 650g
Dramkan	72W × 149H × 380 mm	84W × 174H × 52D mm	87W × 185H × 47D mm 93W × 197H × 53D mm

Models



	SUPREME		
Model no. (order code)	DT4281	DT4282	





	BETTER				
Model no. (order code)	DT4252	DT4253	DT4254	DT4255	DT4256

1226		GOOD			
60	Model no. (order code)	DT4221	DT4222	DT4223	DT4224

NEW DT4261

(Accuracy guaranteed for 1 year, post-adjustment 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		11.3 MI2 ± 2.0 %
60.00 V	±0.15% rdg. ±2 dgt.	10.4 MΩ ± 2.0 %
600.0 V		10.3 MQ ± 1.5 %
1000 V	±0.15% rdg. ±5 dgt.	10.3 Mt2 ± 1.3 %

*1. Add ± 1 dgt. when measuring at or below 5% of range

AC Voltage					
Danga		Accu	iracy	lanut launa dan sa	
Range	40 Hz to	500 Hz	500 Hz to 1 kHz	Input Impedance	
6.000 V			3 dgt. ±1.5% rdg. ±3 dgt.	11.3 M Ω ± 2.0% // 100 pF or less	
60.00 V	10.00/ rd	a 12 dat		10.4 M Ω ± 2.0% // 100 pF or less	
600.0 V	±0.9% lu	g. ±3 agı.		10.3 MΩ ± 1.5% // 100 pF or less	
1000 V				10.3 M22 ± 1.3% // 100 pF of less	
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 Measurem	ent	
Range	Accuracy	Input Impedance
600.0 mA		
6.000 A	±0.5% rdg. ±3 dgt.	35 mΩ ±30%
10.00 A		

Accuracy specification range Add ±2 dgt. when measuring at or below 5% of range.

AC A Mea	asurement		
Danga	Accu	iracy	Input Impodonoo
Range	40 Hz to 500 Hz	500 H to 1 kHz	Input Impedance
600.0 mA			
6.000 A	±1.4% rdg. ±3 dgt.	±1.8% rdg. ±3 dgt.	35 mΩ ±30%
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 Cl	heck			
Range	Ac	curacy	Measurement Current	Open-terminal Voltage
600.0 Ω	±0.7%	rdg. ±5 dgt.	Approx. 200 µA	DC 2.0 V or less
Continuity ON t	hreshold	Approx. 25 Ω or	less (continuous buzzer	sound, red backlight on)
Continuity OFF	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		sound at 0.15 V to 1.8 \ 15 V, red backlight on.	/, continuous buzzer

DT4261 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)

Deres		Accuracy			
Range		40 Hz to 500	Hz	50	0 Hz to 1 kHz
10.00 A					
20.00 A					
50.0 A					
100.0 A		±0.9% rdg. ±3	dgt.	±1.	5% rdg. ±3 dgt.
200.0 A					
500 A					
1000 A					
	,	018-50, or 9132-50 Cl ide the error of the clar			sed.
Crest factor		3 or less			
Accuracy specification	n range	Minimum 1% of range; a	dd ±5 dgt. wh	en measuring	g at or below 5% of range
Resistance I	Meası	urement			
Range		Accuracy	Measurem	ent Current	Open-terminal Voltage
600.0 Ω	±	0.7% rdg. ±5 dgt.	Approx.	200 µA	

riange	Accuracy	Measurement ourrent	open terminar voltage
600.0 Ω	±0.7% rdg. ±5 dgt.	Approx. 200 µA	
6.000 kΩ		Approx. 100 µA	
60.00 kΩ	±0.7% rdg. ±3 dgt.	Approx. 10 µA	DC 2.0 V or less
600.0 kΩ		Approx. 1 µA	DC 2.0 V or less
6.000 MΩ	±0.9% rdg. ±3 dgt.	Approx. 100 nA	
60.00 MΩ	±1.5% rdg. ±3 dgt.	Approx. 10 nA	

Accuracy guarantee condition After zero adjustment has been performed

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

Frequency	
Range	Accuracy
99.99 Hz	
999.9 Hz	.0.10/ refer 1.1 efet
9.999 kHz	±0.1% rdg. +1 dgt.
99.99 kHz (V AC Only)	

CAT III 1000 V, CAT IV 600 V
Between the V and COM terminals: 1000 V DC/AC
Between the A and COM terminals: 10 A DC/10 A AC

Accessories

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

Accessories/Options

DT4261 Test Leads



(Bundled accessory)

NEW

TEST LEAD L9300 Cable length 95 cm (3.12 ft) Integrated cap and protective finger guard

Exposed tip metal pin: short CATIII 1000 V, CATIV 600 V Exposed tip metal pin: long CATII 1000 V



tips (at right) can be used on L9207-10, DT4911 test leads.

L9300, L4933 and L4934 probe



CAT II 600 V CAT III 300 V

50 mm

SMALL ALLIGATOR CLIP SET L4934

Test Lead Options (L4930)



Current Measurement: AC CLAMP ON PROBES for DT4261 (Adapter 9704 required for connection)

Product appearance	CAT III 600 V	CAT III 600 V	CAT III 600 V	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.
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.	±1.5% rdg. ±0.1% f.s.	±3% rdg. ±0.2% f.s.	
Frequency characteristics	40 Hz to 1 kHz:±6% rdg.	40 Hz to 3 kHz:±1% rdg.	40 Hz to 1 kHz:±1% rdg.	
Output rate		AC 0.2 V f.s. (For eac	h range)	
Max. circuit voltage		AC 600 V (50/60	Hz)	
Diameter	φ46 mm (1.8	31 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. 420 g (14.8 oz.),cord	07″W × 7.40″H × 1.38″D), d 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)	CONVERSION ADAPTER 9704

Product appearance	CAT III 2000 V		
Model number	P2000		
Max. Input Voltage	DC 2000V		
Max.Rate Voltage To Earth	2000 V (Measurement CAT III) / 1000 V (Measurement CAT IV)/ Anticipated Transient Voltage 15000		
Input Resistance	20M $\Omega \pm 1.0\%$ (between INPUT H – INPUT L)		
Low-pass filter Passband	33 Hz (-3 dB ± 1 dB) *0dB at DC input		
Overload Protection	DC 2200 V/ AC 2200 V 1 minutes (between INPUT H – INPUT L)		
Applicable Standards	Safety EN 61010		
Weight	300 g ± 30 g		

Other options





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All information correct as of 1 Oct, 2021. All specifications are subject to change without notice.

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