



4200 SERIES MADE IN JAPAN



Newly released "DT4261" for wireless communication and DC high voltage measurement!



Bluetooth® wireless technology support for recording and managing measurement data

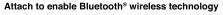


Bluetooth® communication with Z3210 attached to DT4261



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.















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



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

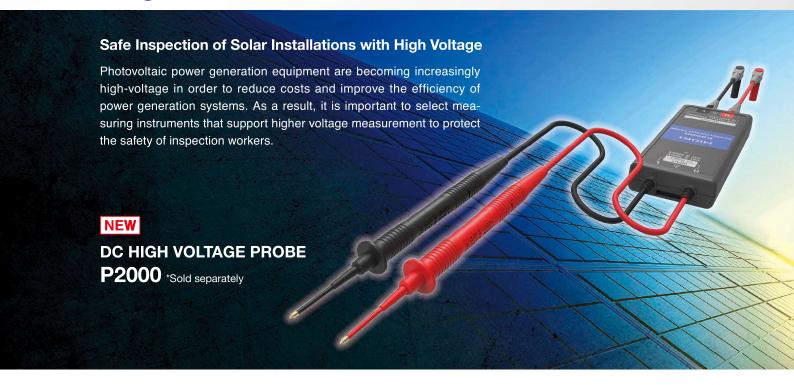


Troubleshoot with simple harmonic analysis in the field



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

Measurement up to CAT III 2000 V with the DC High Voltage Probe P2000 in Combination with DT4261



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

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.

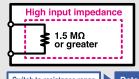
Equipped with a protection circuit to prevent accidents from incorrect voltage input

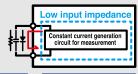


Resistance range measurement circuit



Input-based switching of the measurement circuit

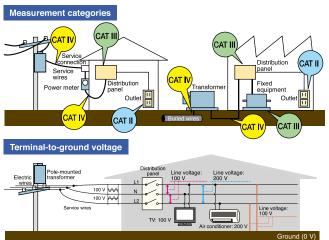




Switch to resistance range Detect input Switch measurement circuit

The DT4223 and DT4224 are equipped with a protection circuit that prevents electrical accidents that occure 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.









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						
•	ement category o the location of use									
	High-end mod	iels	CA	T III 1000 V	/ CAT IV 600 V					
	New Standard Model			T III 1000 V	/ CAT IV 600 V					
	Standard mod	CA	T III 1000 V	/ CAT IV 600 V						
	Pocket mode	els	CA	T 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.



High-end models

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

DC V typical accuracy: ±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 μA to 600.00 mA				
AC current	600.00 μA to 600.00 mA				
AC clamp-on measurement	Frequency				
AC clamp-on measurement Resistance	Frequency Continuity check				
	, ,				
Resistance	Continuity check				
Resistance Temperature	Continuity check Diode test Conductance				



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 μA to 10.000 A			
AC current	600.00 μA to 10.000 A			
AC clamp-on measurement	Frequency			
AC clamp-on measurement Resistance	Frequency Continuity check			
Resistance	Continuity check			



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: ±0.15% rdg. ±2 dgt.
Measurement categories: CAT III (1000 V), CAT IV (600 V)

Safe Inspection of Solar Installations with High Voltage



By connecting the optional DC High Voltage Probe P2000, high voltage measurement up to CAT III 2000 V is now possible.

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.





Multi-functional, on-site maintenance, mega solar 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 damp-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 DT4261-90 (Z3210 set product)

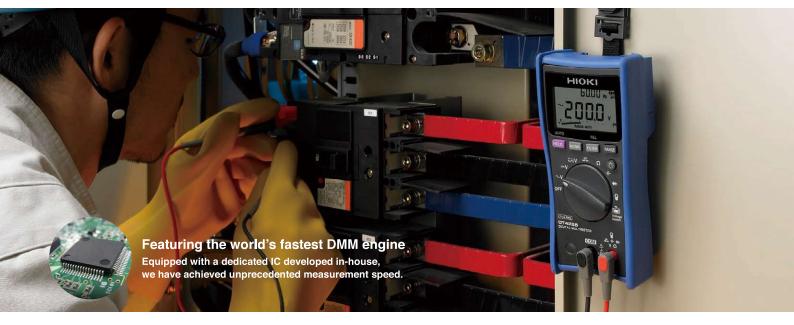
The DT4261-90, a set of DT4261 and Z3210, is also available. It is more economical than purchasing the DT4261 and Z3210 separately, and allows you to build a wireless communication environment with one purchase.







Supported measurement parameter
 Unsupported measurement parameter



Standard models

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

DC V typical accuracy: ±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.

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 Frequency				
10 -1					
AC clamp-on measurement	Frequency				
	Frequency Continuity check				
measurement	, ,				
measurement Resistance	Continuity check				



For instrumentation 4-20 mA DT4253

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

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 μA to 60.00 mA				
AC current					
AC clamp-on measurement	Frequency				
Resistance	Continuity check				
Resistance Temperature	Continuity check Diode test				
	,				



For electrical work in the field DT4255

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

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				
	n/a				
AC clamp-on measurement	Frequency				
Resistance	Continuity check				
Temperature	Diode test				
Capacitance	Conductance				
AC/DC automatic detection	Voltage detection function				



model
DT4256

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

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

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



Pocket models

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

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



For electrical work in the field DT4221

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

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



applications
DT4222

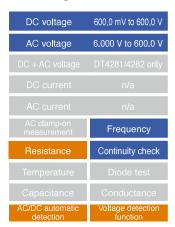
For laboratories and R&D applications to measure a wide variety of parameters.

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					
AC clamp-on measurement	Frequency				
Resistance	Continuity check				
Temperature	Diode test				
Capacitance	Conductance				
AC/DC automatic	Voltage detection				



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					

DT4200 Series Basic Comparison

	18.1 1 1	No. of a dead are date	-	0: 1						
Model category	High-end models	New standard models	0 1	Standard					models	
Measurement type	Electrical General work use	General use/ mega Solar	General use	Air conditioning/ instrumentation	Electrical work	General use	Electrical work	General use	Electrical work	General use
Model	DT4281 DT4282	DT4261/DT4261-90*1	DT4252	DT4253	DT4255	DT4256	DT4221	DT4222	DT4223	DT4224
Appearance	69999. 69999.	NEW 5000-1	5000 - 50	6000.	5000. 5000.	5000. 0 0 0 0	500	5000	5000	6000
Basic Characteristic	CS .									
True RMS	✓	~		•	•				/	
DC V basic accuracy	±0.025% rdg. ±2 dgt.	±0.15% rdg. ±2 dgt.	±0.3% rd	lg. ±5 dgt.	±0.3% r	dg. ±3 dgt.		±0.5% ro	lg. ±5 dgt.	
Measurement items	(Typical ranges are indica	ted; may not reflect max	mum or minin	num measurab	e 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	300 V			6 V to	600 V	
DC V + AC V	6 V to 1000 V	6 V to 1000 V		n/	a	,		r	ı/a	
DC A current	600 μA to 600 mA 600 μA to 10 A		6 A to 10 A	60 μA to 60 mA	n/a	60 mA to 10 A		r	ı/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/		600 mA to 10 A		r	ı/a	
AC clamp	10 A to 1000 A n/a	10 A to 1000 A	n/a		10 A to 1000	A		r	ı/a	
Resistance	60 Ω to 600 MΩ	600 Ω to 60 MΩ		600 Ω to	60 MΩ		n/a	(600 Ω to 60 M	ΙΩ
Temperature	-40°C to 800°C	n/a	n/a	-40°C to 400°C		n/a		r	ı/a	
Capacitance	1 nF to 100 mF	1 μF to 10 mF		1 μF to	10 mF		n/a	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	✓	V		V	•				,	
Diode check	·	V		V	•		n/a	~	n/a	V
Conductance	n/a 🗸	n/a		n/	a			r	ı/a	
Voltage detection	n/a	n/a	n	/a		✓	·	n/a	~	n/a
Additional Functions	S									
AUTO AC/DC V	n/a	V	n/a		~		V	n/a	~	n/a
Peak measurement	DC/AC	DC/AC		n/	a			r	ı/a	
Low-pass filter	Analog filter Cut-off: 630 Hz	Digital filter Pass-band: 100/500 Hz		Digital Pass-band:					al filter : 100/500 Hz	
Display update setting	✓	n/a		n/	a			r	ı/a	
Hold display value	AUTO/MANUAL	AUTO/MANUAL		AUTO/M	ANUAL		1AM	NUAL	AUTO/	MANUAL
Max/Min value display	 (Excluding average value display) 	V		V	•			r	ı/a	
Relative display	✓	n/a		V	•			1	/	
Decibel conversion	~	n/a		n/	a			r	ı/a	
Percentage conversion display	✓	n/a	n/a	· •	n/a	V		r	ı/a	
DC voltage polarity check	✓	V	n	/a		✓		r	ı/a	
Data storage										
Capacity	Max 400 data	n/a		n/					ı/a	
USB communication*3	'	~		•					ı/a	
Bluetooth® communication*4	n/a	✓		n/	a			r	ı/a	
Operating time										
Continuous operating time	Approx. 100 hours*5	Approx. 130 hours*6		Approx. 1	30 hours		Approx.	40 hours	Approx.	35 hours
Power supply	Alkaline (LR6) battery ×4/ Manganese(R6P) battery ×4	Alkaline (LR6) battery ×3		Alkaline (LR0	3) battery ×	4		Alkaline (LR	03) battery × 1	
Display										
Back light	V	V		v					<i>/</i>	
Dual display	V	V		•				r	ı/a	
Bar graph display	n/a	V		•					/	
Safety										
Safety standard categories	CATIII 1000 V, CATIV 600 V	CATIII 1000 V, CATIV 600 V		CATIII 1000 V,	CATIV 600	V		CATIII 600 V	CATIV 300 \	/
Mis-insertion prevention shutters		V		n/					ı/a	
Circuit breaker false trip prevention		n/a		n/			n	ı/a		/
11										

Glossary

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