

High-End

High accuracy, additional function enhancements, broad range of measurement items

■ CAT III 1000V/ CAT IV 600V

DT4281/4282 Measurement Parameters

DC voltage	AC voltage	DCV + ACV	Range	Resistance	Capacitance	Frequency	Temperature

Continuity	Diode

- 630 Hz low-pass filter cuts harmonics - ideal for measuring inverter systems.
- Red display warns of over-range
- Internal memory stores up to 400 data points
- Transfer data to a PC **USB 2.0**
Requires optional DT4900-01 Communication Package



DT4281

Safety First / For electrical work and power line applications



No 'A' terminal
Includes clamp sensor connection terminals

The current terminal is intentionally excluded, for those who need the extra safety of a current measurement clamp.



DT4282

General Purpose / For laboratories and R&D



6A and 10A ranges
Includes conductance measurement
For those with diverse measurement needs

Standard

Choose from 3 models according to your measurement situation

■ CAT III 1000V/ CAT IV 600V

DT4251/4252/4253 Measurement Parameters

DC voltage	AC voltage	Resistance	Capacitance	Frequency	Continuity	Diode

- 15 times better noise immunity over former models
Useable in noisy environments
- Noise suppression with 100/500 Hz low-pass filter
- Red LED indicates over-range and aids in continuity checking
- Dual-value and bar graph displays
- Transfer data to a PC **USB 2.0**
Requires optional DT4900-01 Communication Package



DT4251

Safety First / For electrical work and power line applications



No 'A' terminal
Includes clamp sensor connection terminals and voltage detector

For those who need the extra safety



DT4252

General Purpose / For laboratories and R&D



High precision 600mV range
6A and 10A ranges

For those with diverse measurement needs



DT4253

Specialized applications / Instrumentation, air conditioning and gas equipment



60μA to 60mA range
Includes temperature measurement

For HVAC, instrumentation and temperature testing

Pocket

Quick, simple and safe testing in a palm-sized unit

■ CAT III 600V/ CAT IV 300V

DT4221/4222 Measurement Parameters

DC voltage	AC voltage	Frequency	Continuity

- Noise suppression with 100/500 Hz low-pass filter
- Runs on one AAA battery, for simple replacement
- Effortless operation with probe storage clips behind the instrument



DT4221

Safety First / For electrical work and power line applications



No current or resistance functions
Auto DC/AC detection
Includes voltage detector

Ideal for safe voltage measurements



DT4222

General Purpose / For laboratories and electrical testing



Resistance
Capacitance
Includes diode check

For those with diverse measurement needs

DT4200 Series Basic Comparison

	DT4281	DT4282	DT4251	DT4252	DT4253	DT4221	DT4222
Basic Characteristics							
True RMS	Yes		Yes			Yes	
DCV basic accuracy	±0.025 %rdg. ±2 dgt.		±0.3 %rdg. ±5 dgt.			±0.5 %rdg. ±5 dgt.	
Measurement items (Typical ranges are indicated; may not reflect maximum or minimum measurable signal)							
DC voltage	60mV to 1000V		600mV to 1000V			600mV to 600V	
AC voltage	60mV to 1000V		6V to 1000V			6V to 600V	
DCV + ACV	6V to 1000V		n/a			n/a	
DCA current	600µA to 600mA	600µA to 10A	n/a	6A to 10A	60µA to 60mA	n/a	
ACA current	600µA to 600mA	600µA to 10A	n/a	6A to 10A	n/a	n/a	
AC clamp	10A to 1000A	n/a	10A to 1000A	n/a	10A to 1000A	n/a	
Resistance	60Ω to 600MΩ		600Ω to 60MΩ			n/a	600Ω to 60MΩ
Temperature	-40°C to 800°C		n/a	n/a	-40°C to 400°C	n/a	
Capacitance	1nF to 100mF		1µF to 10mF			n/a	1µF to 10mF
Frequency	99Hz to 500kHz		99Hz to 99kHz			99Hz to 9.9kHz	
Continuity check	Yes		Yes			Yes	
Diode check	Yes		Yes			n/a	Yes
Conductance	n/a	Yes	n/a			n/a	
Voltage detection	n/a		Yes	n/a	n/a	Yes	n/a
Additional Functions							
AUTO AC/DCV	n/a		Yes	n/a	Yes	Yes	n/a
Peak measurement	DC/AC		n/a			n/a	
Low-pass filter	Analog filter Cut-off : 630 Hz		Digital filter Pass-band : 100Hz/500Hz			Digital filter Pass-band : 100Hz/500Hz	
Display update setting	Yes		n/a			n/a	
Hold display value	AUTO / MANUAL		AUTO / MANUAL			MANUAL	
Max/Min value display	Yes		Yes			n/a	
Relative display	Yes		Yes			Yes	
Decibel conversion	Yes		n/a			n/a	
Percentage conversion display	Yes		n/a	n/a	Yes	n/a	
Data storage							
Capacity	Max 400 data		n/a			n/a	
USB communication*1	Yes		Yes			n/a	
Operating time							
Continuous operating time	Approx. 100 hours*2		Approx. 130 hours			Approx. 40 hours	
Power supply	Alkaline (LR6) battery x4 / Manganese(R6P) battery x4		Alkaline (LR03) battery x4			Alkaline (LR03) battery x1	
Display							
Back light	Yes		Yes			Yes	
Dual display	Yes		Yes			n/a	
Bar graph display	n/a		Yes			Yes	
Safety							
Safety standard categories	CAT III 1000V/ CAT IV 600V		CAT III 1000V/ CAT IV 600V			CAT III 600V/ CAT IV 300V	
Mis-insertion prevention shutters	Yes		n/a			n/a	

*1. Requires optional DT4900-01 Communication Package

*2. When using four AA alkaline batteries

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