












# 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	Electrical work	General use
Model	DT4281	DT4282	DT4261 / DT4261-90*1	DT4252	DT4253	DT4255	DT4256	DT4221	DT4222	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.			
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 600 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		60 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				n/a	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	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	✓	n/a	✓
Conductance	n/a	✓	n/a	n/a				n/a			
Voltage detection	n/a		n/a	n/a	n/a		✓	✓	n/a	✓	n/a
Additional Functions											
AUTO AC/DC V	n/a		✓	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				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		✓	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. 40 hours	Approx. 35 hours		
Power supply	Alkaline (LR6) battery x4/ Manganese(R6P) battery x4		Alkaline (LR6) battery x3	Alkaline (LR03) battery x4				Alkaline (LR03) battery x1			
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				n/a	✓		

\*1. Z3210 set product \*2. 2000 V is supported only when using the optional DC HIGH VOLTAGE PROBE P2000

\*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.