

DT4200 Series Basic Comparison



DT4281 | DT4282 | DT4252 | DT4253 | DT4254 | DT4255 | DT4256 | DT4221 | DT4222 | DT4223 | DT4224

Basic Characteristics												
True RMS	Yes				Yes				Yes			
DCV basic accuracy	±0.025 %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		600 mV to 1500 V	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	
DCV + ACV	6 V to 1000 V		n/a								n/a	
DCA 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	n/a			
ACA current	600 µA to 600 mA	600 µA 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	n/a	10 A to 1000 A	n/a	10 A to 1000 A	10 A to 1000 A	n/a				
Resistance	60 Ω to 600 MΩ		600 Ω to 60 MΩ		n/a	600 Ω to 60 MΩ			n/a	600 Ω to 60 MΩ		
Temperature	-40°C to 800°C		n/a	-40°C to 400°C			n/a			n/a		
Capacitance	1 nF to 100 mF		1 µF to 10 mF		n/a	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 9.9 kHz			
Continuity check	Yes		Yes		n/a		Yes		Yes			
Diode check	Yes		Yes		n/a		Yes		n/a	Yes	n/a	Yes
Conductance	n/a	Yes	n/a				n/a					
Voltage detection	n/a		n/a		Yes			Yes	n/a	Yes	n/a	
Additional Functions												
AUTO AC/DCV	n/a		n/a	Yes				Yes	n/a	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		AUTO / 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	Yes	n/a		n/a		n/a			
DC voltage polarity check	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		Approx. 35 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	CATIII1000 V/ CATIV600 V		CATIII1000 V/ CATIV600 V				CATIII600 V/ CATIV300 V					
Mis-insertion prevention shutters	Yes		n/a								n/a	
Circuit breaker false trip prevention	n/a		n/a				n/a		Yes			

*1. Requires optional DT4900-01 Communication Package

*2. When using four AA alkaline batteries

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.