

Table of Specifications

(Representative figures are provided for basic accuracy. For more information, please see the product catalog.)

Model		High precision models		Standard models			Pocket models	
		DT4281	DT4282	DT4251	DT4252	DT4253	DT4221	DT4222
Appearance								
Basic Specifications								
Principal applications		Electrical work	General use	Electrical work	General use	Air-conditioning/ instrumentation	Electrical work	General use
Rectifier		True RMS		True RMS			True RMS	
Maximum display count		60000		6000			6000	
Display backlight function		✓	✓	✓	✓	✓	✓	✓
CAT	Probe sleeve attached	CAT IV 600 V / CAT III 1000 V		CAT IV 600 V / CAT III 1000 V			CAT IV 300 V / CAT III 600 V	
	No probe sleeve attached	CAT II 1000 V		CAT II 1000 V			CAT II 600 V	
Measurement range								
AC/DC Voltage		60.000 mV/ 600.0 mV/ 6.0000 V/ 60.000 V/ 600.0V/ 1000.0 V		*600.0 mV (* DC only) 6.000 V/ 60.00 V/ 600.0 V/ 1000 V			*600.0 mV (* DC only) 6.000 V/ 60.00 V/ 600.0 V	
Basic accuracy (DC V)		±0.025 % rdg. ±2 dgt.		±0.3 % rdg. ±5 dgt. High accuracy 600.0 mV range: ±0.2 %rdg. ±5 dgt.			±0.5 % rdg. ±5 dgt.	
Basic accuracy (AC V)		±0.2 % rdg. ±25 dgt.		±0.9 % rdg. ±3 dgt.			±1.0 % rdg. ±3 dgt.	
AC+DC Voltage		6.0000 V/ 60.000 V 600.00 V/ 1000.0 V		N/A	N/A	N/A	N/A	N/A
Basic accuracy		±0.3 % rdg. ±30 dgt.						
AC/DC Current (Direct input)		600.00 μA/ 6000.0 μA 60.000 mA/ 600.00 mA	600.00 μA/ 6000.0 μA 60.000 mA/ 600.00 mA 6.0000 A/ 10.000 A	N/A	6.000 A/ 10.00 A	*60.00 μA/*600.0 μA *6.000 mA/*60.00 mA (* DC only)	N/A	N/A
Basic accuracy (DC A)		±0.05 % rdg. ±5 dgt.		±0.9 % rdg. ±5 dgt.			±0.8 % rdg. ±5 dgt.	
Basic accuracy (AC A)		±0.6 % rdg. ±5 dgt.		±1.4 % rdg. ±3 dgt.				
AC Current (Clamp sensor)		10.00 A to 1000 A	N/A	10.00 A to 1000 A	N/A	10.00 A to 1000 A	N/A	N/A
Basic accuracy		±0.6 % rdg. ±2 dgt. Combined accuracy: Add AC clamp's mea- surement accuracy.		±0.9 % rdg. ±3 dgt. Combined accuracy: Add AC clamp's mea- surement accuracy.			±0.9 % rdg. ±3 dgt. Combined accuracy: Add AC clamp's mea- surement accuracy.	
Resistance		60.000 Ω/ 600.00 Ω/ 6.0000 kΩ/ 60.000 kΩ/ 600.00 kΩ/ 6.0000 MΩ/ 60.00 MΩ/ 600.0 MΩ		600.0 Ω/ 6.000 kΩ/ 60.00 kΩ/ 600.0 kΩ/ 6.000 MΩ/ 60.00 MΩ			N/A	600.0 Ω/ 6.000 kΩ/ 60.00 kΩ/ 600.0 kΩ/ 6.000 MΩ/ 60.00 MΩ
Basic accuracy		±0.03 % rdg. ±2 dgt.		±0.7 % rdg. ±5 dgt.			±0.9 % rdg. ±5 dgt.	
Temperature (thermocouples)		K: -40.0 to 800.0 °C		N/A	N/A	K: -40.0 to 400.0 °C	N/A	N/A
Basic accuracy		±0.5 % rdg. ±3 °C		±0.5 % rdg. ±2 °C				
Capacitance		1.000 nF/ 10.00 nF/ 100.0 nF/ 1.000 μF/ 10.00 μF/ 100.0 μF/ 1.000 mF/ 10.00 mF/ 100.0 mF		1.000 μF/ 10.00 μF/ 100.0 μF/ 1.000 mF/ 10.00 mF			N/A	1.000 μF/ 10.00 μF/ 100.0 μF/ 1.000 mF/ 10.00mF
Basic accuracy		±1.0 % rdg. ±5 dgt.		±1.9 % rdg. ±5 dgt.			±1.9 % rdg. ±5 dgt.	
Frequency		ACV, DC+ACV, ACA (limited by range in some cases) 99.999 Hz/ 999.99 Hz/ 9.9999 kHz/ 99.999 kHz/ 500.00 kHz		ACV, DC+ACV, ACA (limited by range in some cases) 99.99 Hz/ 999.9 Hz/ 9.999 kHz/ 99.99 kHz			99.99 Hz/ 999.9 Hz/ 9.999 kHz	
Basic accuracy		±0.005 % rdg. ±3 dgt.		±0.1 % rdg. ±1 dgt.			±0.1 % rdg. ±2 dgt.	
Continuity check		✓	✓	✓	✓	✓	✓	✓
Diode check		✓	✓	✓	✓	✓	N/A	✓
Conductance		N/A	✓	N/A	N/A	N/A	N/A	N/A
Voltage detection		N/A	N/A	✓	N/A	N/A	✓	N/A
AC/DC voltage automatic detection		AC/DC dual display	AC/DC dual display	✓	N/A	✓	✓	N/A
Decibel conversion		✓	✓	N/A	N/A	N/A	N/A	N/A
Peak measurement		✓	✓	N/A	N/A	N/A	N/A	N/A
4-20 mA % conversion		✓	✓	N/A	N/A	✓	N/A	N/A
Other functions		Filter function, Display hold, Auto hold, Max/Min value display, Sampling select, Relative display, Memory function (400 data), Auto-power save, USB communication (option)		Filter function, Display hold, Auto hold, Max/Min/Avg value display, Relative display, Auto-power save, USB communication (option)			Filter function, Display hold, Relative display, Auto-power save	
Power supply/ Continuous use (Backlight off)		LR6 (AA) alkaline batteries ×4, 100 hours R6P (AA) manganese battery ×4, 30 hours [Representative value: DCV function]		Alkaline batteries (LR03) ×4, 130 hours			Alkaline batteries (LR03) ×1, 40 hours	
Dimensions and mass		93 mm (3.66 in)W × 197 mm (7.76 in)H× 53 mm (2.09 in)D, 650 g (22.9 oz) (including batteries)		84 mm (3.31 in)W × 174 mm (6.85 in)H× 52 mm (2.05 in)D, 390 g (13.8 oz) (including batteries and holster)			72 mm (2.83 in)W × 149 mm (5.87 in)H× 38 mm (1.50 in)D, 190 g (6.7 oz) (including batteries and holster)	

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Model		Standard models		Pocket models			Standard models
		DT4211	DT4212	3244-60	3245-60	3246-60	3255-50
Appearance							
Basic Specifications							
Principal applications		General use	Electrical work	General use	General use	General use	Electrical work
Rectifier		MEAN	True RMS	MEAN	MEAN	MEAN	MEAN
Maximum display count		4000		4199	4199	4199	4199
Display backlight function		✓		N/A	N/A	✓	N/A
CAT	Probe sleeve attached	CAT III 600 V CAT II 1000 V		CAT III 300 V	CAT IV 300 V CAT III 600 V	CAT IV 300 V CAT III 600 V	CAT III 600 V CAT II 1000 V
	No probe sleeve attached	CAT II 1000 V		CAT II 600 V	CAT II 600 V	CAT II 600 V	CAT II 1000 V
Measurement range							
AC/DC Voltage		400.0 mV/ 4.000 V/ 40.00 V/ 400.0/ 1000 V		*419.9 mV/ 4.199 V/ 41.99 V/ 419.9 V/ 500 V (* DC only)	*419.9 mV/ 4.199 V/ 41.99 V/ 419.9 V/ 600 V (* DC only)	*419.9 mV/ 4.199 V/ 41.99 V/ 419.9 V/ 600 V (* DC only)	419.9 mV/ 4.199 V/ 41.99 V/ 419.9 V/ 1000 V
Basic accuracy (DC V)		±0.5 % rdg. ±3 dgt.		±0.7 % rdg. ±4 dgt.	±1.3 % rdg. ±4 dgt.	±1.3 % rdg. ±4 dgt.	±0.5 % rdg. ±4 dgt.
Basic accuracy (AC V)		±1.0 % rdg. ±5 dgt.		±2.3 % rdg. ±8 dgt.	±2.3 % rdg. ±8 dgt.	±2.3 % rdg. ±8 dgt.	±1.2 % rdg. ±4 dgt.
AC+DC Voltage		N/A		N/A	N/A	N/A	N/A
Basic accuracy							
AC/DC Current (Direct input)		400.0 μA/ 4000 μA 40.00 mA/ 400.0 mA 4.000 A/ 10.00 A		N/A	N/A	N/A	N/A
Basic accuracy (DC A)		±1.2 % rdg. ±3 dgt.					
Basic accuracy (AC A)		±1.2 % rdg. ±5 dgt.					
AC Current (Clamp sensor)		N/A		N/A	N/A	N/A	10.00 A to 1000 A (with optional clamp sensor)
Basic accuracy							±2.0 % rdg. ±4 dgt. Combined accuracy: Add AC clamp's measurement accuracy.
Resistance		400.0 Ω/ 4.000 kΩ/ 40.00 kΩ/ 400.0 kΩ/ 4.000 MΩ/ 40.00 MΩ		419.9 Ω/ 4.199 kΩ/ 41.99 kΩ/ 419.9 kΩ/ 4.199 MΩ/ 41.99 MΩ			
Basic accuracy		±0.5 % rdg. ±2 dgt.					
Temperature (thermocouples)		N/A	K: -55.0 to 700 °C	N/A	N/A	N/A	N/A
Basic accuracy		±2 °C (at 0 to 50 °C)					
Capacitance		50.00 nF/ 500.0 nF/ 5.000 μF/ 50.00 μF/ 100.0 μF		N/A	N/A	N/A	N/A
Basic accuracy		±2.0 % rdg. ±5 dgt.					
Frequency		5.000 Hz/ 50.00 Hz/ 500.0 Hz/ 5.000 kHz/ 50.00 kHz/ 500.0 kHz/ 5.000 MHz		N/A	N/A	N/A	N/A
Basic accuracy		±0.1 % rdg. ±3 dgt.					
Continuity check		✓		✓	✓	✓	✓
Diode check		✓		N/A	N/A	✓ (Judgment only)	✓
Conductance		N/A				N/A	
Voltage detection		N/A				N/A	
AC/DC voltage automatic detection		N/A				N/A	
Decibel conversion		N/A				N/A	
Peak measurement		N/A				N/A	
4-20 mA % conversion		N/A				N/A	
Other functions		Operating temperature range of -10 to 50 °C, Display hold, Relative display, Auto-power save		N/A	Light check function	LED light illuminates test points Backlight LCD	Dust-proof and waterproof structure, Built-in with current-limiting resistor and 1000 V withstanding fuse to prevent short-circuit accidents
Power supply/ Continuous use (Backlight off)		Alkaline batteries (LR6) ×2, 800 hr	Alkaline batteries (LR6) ×2, 450 hr	Coin type lithium battery (CR2032) ×1, 150 hr	Main battery: Rechargeable lithium battery, Backup battery: Coin type lithium battery (CR2032) ×1, 150 hr (Backup battery)	Coin type lithium battery (CR2032) ×1, 150 hr	Manganese batteries (R03) ×2, 200 hr
Dimensions and mass		91.6 mm (3.61 in) W × 180.6 mm (7.11 in) H × 57.1 mm (2.25 in) D, 388 g (13.7 oz)		55 mm (2.17 in) W × 109 mm (4.29 in) H × 9.5 mm (0.37 in) D, 60 g (2.1 oz)	60 mm (2.36 in) W × 135 mm (5.31 in) H × 23 mm (0.91 in) D, 140 g (4.9 oz)	30 mm (1.18 in) W × 182 mm (7.17 in) H × 26.5 mm (1.04 in) D, 80 g (2.8 oz)	70 mm (2.76 in) W × 145 mm (5.71 in) H × 31 mm (1.22 in) D, 210 g (7.4 oz) (including batteries)

Test lead L9207-10/ L9207-30/ L9206

Sleeve attached	CAT IV 600 V	When the CAT (measurement category) rating of the main unit is lower than that of test leads, the CAT of the main unit takes precedence. When measuring in a CAT IV or CAT III environment, be sure to attach the sleeve to the test leads.
	CAT III 1000 V	
No sleeve attached	CAT II 1000 V	

