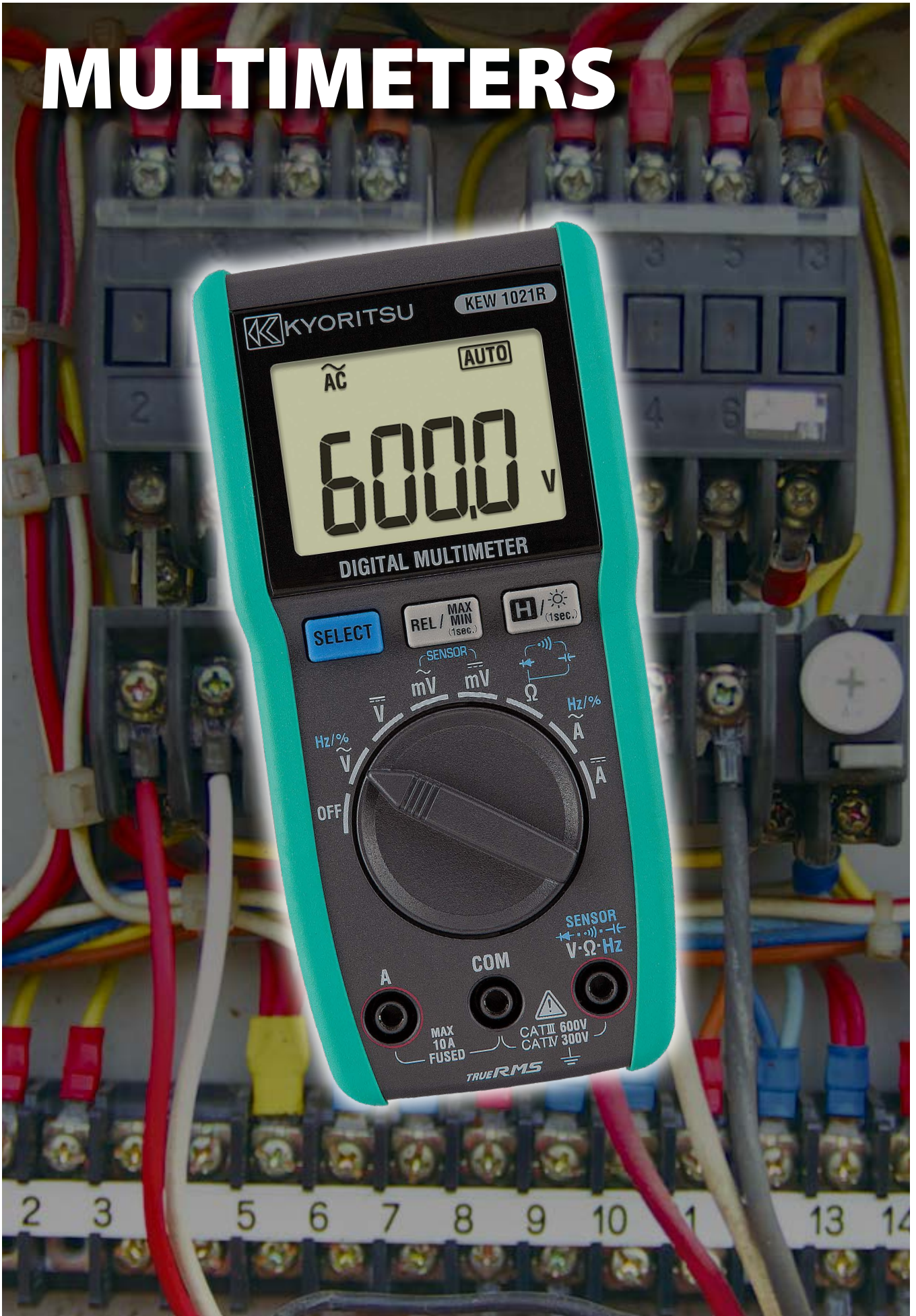


MULTIMETERS

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Selection Guide of Multimeters

		Analogue Multimeters		Digital Multimeters										
		1109S	1110	1018H	1019R	1020R	1021R	1030	1009	1011 1012	1051 1052	1061 1062	2000 2001	2012R
Appearance														
Detection method		-	-	-	✓	✓	✓	-	-	✓ (1012)	✓	✓	-	✓
Maximum count display		-	-	4000	6000	6000	6000	4000	4000	6000	6000	50000	3400	6000
DC Basic accuracy		±3% of FS	±3% of FS	0.8%	0.8%	0.5%	0.5%	0.8%	0.6%	0.5%	0.09%	0.02%	1.5%	1.0%
Frequency response		30 - 20kHz	50 - 5kHz	50 - 400Hz	45 - 500Hz	40 - 500Hz	40 - 500Hz	50 - 400Hz	50 - 400Hz	40 - 1kHz	40 - 1kHz	10 - 20kHz(1061) 10 - 100kHz(1062)	50 - 400Hz	45 - 400Hz
Measurement														
DC V	Max	1000V	600V	600V	600V	1000V	600V	600V	600V	600V	1000V	1000V	600V	600V
	Resolution	0.002V	0.005V	0.1mV	0.1mV	0.1mV	0.1mV	0.1mV	0.1mV	0.1mV	0.1mV	0.001mV	0.1mV	0.1mV
AC V	Max	1000V	600V	600V	600V	1000V	600V	600V	600V	600V	1000V	1000V	600V	600V
	Resolution	0.2V	0.2V	0.001V	0.001V	0.1mV	0.1mV	0.001V	0.1mV	0.001V	0.1mV	0.01mV(1061) 0.001mV(1062)	0.001V	0.001V
DCA	DC A	250mA	300mA	-	-	-	10A	-	10A	10A	10A	10A	60A(2000) 100A(2001)	120A
ACA	AC A	-	-	-	-	-	10A	-	10A	10A	10A	10A	60A(2000) 100A(2001)	120A
DC+AC	DC+AC	-	-	-	-	-	-	-	-	-	-	✓	-	-
Resistance	Ω	20MΩ	300KΩ	40MΩ	40MΩ	40MΩ	40MΩ	40MΩ	40MΩ	60MΩ	60MΩ	50MΩ	34MΩ	60MΩ
Continuity buzzer		-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Battery test		-	✓	-	-	-	-	-	-	-	-	-	-	-
Diode test		-	-	✓	-	✓	✓	✓	✓	✓	✓	✓	-	✓
Capacitance		-	-	200μF	600μF	1000μF	1000μF	100μF	100μF	4000μF	1000μF	50mF	-	40μF
Frequency	Hz	-	-	10kHz	-	ACV 99.99kHz	ACA 9.999kHz ACV 99.99kHz	200kHz	10MHz	10MHz	99.99kHz	99.99kHz	ACA 10kHz ACV 300kHz	ACA 400Hz ACV 300kHz
Duty cycle ratio	DUTY	-	-	✓	-	✓	✓	✓	✓	✓	-	✓	-	-
Temperature	°C	-	✓	-	-	-	-	-	-	✓ (1011)	✓	✓	-	-
Decibel	dB	✓	-	-	-	-	-	-	-	-	-	✓	-	-
Low power-Ω	LP-Ω	-	-	-	-	-	-	-	-	-	-	✓ (1062)	-	-
Function														
Dual display		-	-	-	-	-	-	-	-	-	✓	✓	-	-
Bar graph		-	-	-	-	-	-	-	-	✓	✓	✓	✓	✓
Back light		-	-	-	-	✓	✓	✓	-	-	✓	✓	-	-
Data hold	DATA HOLD	-	-	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	✓
Auto hold		-	-	-	-	-	-	-	-	-	✓	✓	-	-
Peak hold	PEAK HOLD	-	-	-	-	-	-	-	-	-	-	✓ (1062)	-	-
Max/Min/Ave	Max/Min/Ave	-	-	-	-	✓ (No Ave)	✓ (No Ave)	-	-	✓ (No Ave)	✓ (1052)	✓	-	-
REL	REL	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-
Manual memory		-	-	-	-	-	-	-	-	-	✓ (1052)	✓	-	-
Logging memory		-	-	-	-	-	-	-	-	-	✓ (1052)	✓	-	-
Communication	USB	-	-	-	-	-	-	-	-	-	✓ (1052)	✓	-	-
Other														
Operating temperature		0 - 40°C	0 - 40°C	0 - 40°C	0 - 40°C	0 - 40°C	0 - 40°C	0 - 40°C	0 - 40°C	0 - 40°C	-10 - 55°C	-20 - 55°C	0 - 40°C	0 - 40°C
Measurement categories		-	CAT III 300V CAT II 600V	CAT III 300V	CAT III 300V CAT II 600V	CAT IV 300V CAT III 600V CAT II 1000V	CAT IV 300V CAT III 600V	CAT III 600V	CAT III 300V	CAT III 300V CAT II 600V	CAT III 300V CAT IV 600V CAT III 1000V	CAT IV 600V CAT III 1000V	CAT III 300V CAT II 600V	CAT III 300V CAT III 600V
Power source		R6 × 2, 6F22 × 1	R6 × 2	LR-44 × 2	CR2032 × 1	R03 × 2	R03 × 2	LR-44 × 2	R6 × 2	R6 × 2	R6 × 2	R6 × 4	R6 × 4	R03 × 2
Dimensions (L)(W)(D)mm		150×100×47	140×94×39	107×54×10	126×85×18	155×75×40 ^{*2}	155×75×35 ^{*1} 155×75×40 ^{*2}	190×39×31	161×82×50	161×82×50	192×90×49	192×90×49	128×84×24(2000) 128×92×27(2001)	128×92×27
Weight(Approx.)		330g	280g	70g	135g	250g	250g	100g	280g	280g	560g	560g	210g(2000) 220g(2001)	220g
Accessories	Test leads	7066A	7066A	-	-	7066A	7066A	-	7066A	7066A 8216(1011)	7220A	7220A	-	-
	Fuse	8901 × 2	8923 × 2	-	-	-	8919 × 1	-	8923 × 1 8919 × 1	8918 × 1 8919 × 1	8926 × 1 8927 × 1	8926 × 1 8927 × 1	-	-
	Case	-	9013	9114	9188	-	9097	9130	-	-	-	-	-	-

*1 With flat-type holder

*2 With wing-type holder