Quality and we hability to our tradition

(YORI

Smart PenTypeDMM

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Compact in Size, Light in Weight and Simple in Use
 Double moulding provides comfortable and good feeling in hand

Penlight illuminates brightly the point to be measured, even in dark place

- Backlight LCD is highly visible, even in darkness
  Auto power-off function saves the battery life
- Unique wrapping mechanism for test lead in the rear side compartment

Unique protection mechanism for the test prod for safety

All ranges including Ohm range are protected against overload voltage of 600V

FLORIT

Designed in conformity with International safety standards IEC61010-1:2001 CAT.II 600V

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## KEW MULTIMETER KEW 1030

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KYORITSU ELECTRICAL INSTRUMENTS WORKS, LTD.

#### KEW 1030 Specifications

Battery voltage warning         When the battery voltage drops to 2.4V±0.2V or less           Auto power-off         Built-in           Safety standard / EMC         IEC61010-1:2001 CAT. II 600V           IEC61010-031         IEC61326-1           Power source         Button type battery LR44(SR44)1.5V x 2           Dimensions         190(L)×39(W)×31(D)mm		
±1.3%rdg±5dgt(4/40V)(50/60Hz)           ±1.6%rdg±5dgt(4/40V)(50/60Hz)           DC V           400m/4/40/400/600V) (50/60Hz)           ±1.6%rdg±5dgt(400mV-400V)           ±0.8%rdg±5dgt(400mV-400V)           ±1.0%rdg±5dgt(400mV-400V)           ±1.0%rdg±5dgt(400mV-400V)           ±1.0%rdg±5dgt(400mV-400V)           ±1.0%rdg±5dgt(400mV-400V)           ±1.0%rdg±5dgt(400Q-4MQ)           ±2.5%rdg±5dgt(400Q)           Diode check           Test voltage approx. 0.3~1.5V           Continuity check           Buzzer sounds when resistance is 120Ω or less.           Capacitance           50n/500n/5µ/50µ/100µF(5 Range auto)           ±3.5%rdg±5dgt(50nF)           ±3.5%rdg±5dgt(100µF)           ±3.5%rdg±5dgt(100µF)           ±4.5%rdg±5dgt(100µF)           ±4.5%rdg±5dgt (Pulse width / Pulse cycle)           General           Data hold           The measured value can be hold by pressing Data hold butto           Battery voltage warning           When the battery voltage drops to 2.4V±0.2V or less           Auto power-off           Built-in           Safety standard / EMC           IEC61010-1:2001 CAT.II 600V           IEC61326-1           Power source	Measurement	
±1.6%rdg±5dgt(400/600V) (50/60Hz)         DC V       400m/4/40/400/600V(5 Range auto)         ±0.8%rdg±5dgt(400mV-400V)         ±1.0%rdg±5dgt(400mV-400V)         ±1.0%rdg±5dgt(400mV-400V)         ±1.0%rdg±5dgt(400mV-400V)         ±1.0%rdg±5dgt(400Q-4MQ)         ±2.5%rdg±5dgt(400Q-4MQ)         ±2.5%rdg±5dgt(400Q-4MQ)         ±2.5%rdg±5dgt(400Q)         Diode check         Continuity check         Buzzer sounds when resistance is 120Ω or less.         Capacitance         50n/500n/5µ/50µ/100µF(5 Range auto)         ±3.5%rdg±10dgt(50nF)         ±3.5%rdg±5dgt(100µF)         ±3.5%rdg±5dgt(100µF)         ±4.5%rdg±5dgt(100µF)         ±0.1%rdg±5dgt (Measurable input:1.5Vrms or more)         Duty       0.1-99.9%         ±2.5%rdg±5dgt (Pulse width / Pulse cycle)         General       The measured value can be hold by pressing Data hold buttor         Battery voltage warning       When the battery voltage drops to 2.4V±0.2V or less         Auto power-off       Built-in         Safety standard / EMC       IEC61010-1:2001 CAT.II 600V         IEC61326-1       Power source         Button type battery LR44(SR44)1.5V x 2       Dimensions         190(L)×39(W)×31(D)mm       190(L)×39(W)×31(D)m <th>AC V</th> <th>4/40/400/600V(4 Range auto)</th>	AC V	4/40/400/600V(4 Range auto)
DC V     400m/4/40/400/600V(5 Range auto) ±0.8%rdg±5dgt(400mV-400V) ±1.0%rdg±5dgt(400mV-400V) ±1.0%rdg±5dgt(400Ω)       Ω     400/4k/40k/40k/4M/40MΩ(6 Range auto) ±1.0%rdg±5dgt(400Ω-4MΩ) ±2.5%rdg±5dgt(400Ω-4MΩ) ±2.5%rdg±5dgt(400Ω-4MΩ) ±2.5%rdg±5dgt(400Ω-4MΩ) ±2.5%rdg±5dgt(500n-50µF) ±3.5%rdg±5dgt(500n-50µF) ±3.5%rdg±5dgt(500n-50µF) ±3.5%rdg±5dgt(500n-50µF) ±4.5%rdg±5dgt(100µF)       Frequency     5/50/500/5k/50k/200kHz ±0.1%rdg±5dgt(100µF)       Duty     0.1-99.9% ±2.5%rdg±5dgt (Pulse width / Pulse cycle)       General     The measured value can be hold by pressing Data hold butto Battery voltage warning Auto power-off       Safety standard / EMC     IEC61010-1:2001 CAT.II 600V IEC61010-031 IEC61326-1       Power source     Button type battery LR44(SR44)1.5V x 2 Dimensions		±1.3%rdg±5dgt(4/40V)(50/60Hz)
±0.8%rdg±5dgt(400mV-400V)       ±0.8%rdg±5dgt(400mV-400V)       ±1.0%rdg±5dgt(600V)       Ω     400/4k/40k/400k/4M/40MΩ(6 Range auto)       ±1.0%rdg±5dgt(400Ω-4MΩ)       ±2.5%rdg±5dgt(400Ω)       Diode check     Test voltage approx. 0.3-1.5V       Continuity check     Buzzer sounds when resistance is 120Ω or less.       Capacitance     50n/500n/5μ/50μ/100μF(5 Range auto)       ±3.5%rdg±5dgt(500n-50μF)     ±3.5%rdg±5dgt(500n-50μF)       ±4.5%rdg±5dgt(500n-50μF)     ±4.5%rdg±5dgt(100μF)       Frequency     5/50/500/5k/50k/200kHz       ±0.1%rdg±5dgt (Measurable input:1.5Vrms or more)     Duty       0.1-99.9%     ±2.5%rdg±5dgt (Pulse width / Pulse cycle)       General     The measured value can be hold by pressing Data hold buttot       Battery voltage warning     When the battery voltage drops to 2.4V±0.2V or less       Auto power-off     Built-in       Safety standard / EMC     IEC61010-1:2001 CAT.II 600V       IEC61010-0:31     IEC61326-1       Power source     Button type battery LR44(SR44)1.5V x 2       Dimensions     190(L)×39(W)×31(D)mm		±1.6%rdg±5dgt(400/600V) (50/60Hz)
±1.0%rdg±5dgt(600V)         Ω         400/4k/40k/400k/4M/40MΩ(6 Range auto)         ±1.0%rdg±5dgt(400Ω-4MΩ)         ±2.5%rdg±5dgt(400Ω)         Diode check         Centinuity check         Buzzer sounds when resistance is 120Ω or less.         Capacitance         50n/500n/5µ/50µ/100µF(5 Range auto)         ±3.5%rdg±5dgt(500nF)         ±3.5%rdg±5dgt(100µF)         ±3.5%rdg±5dgt(100µF)         ±3.5%rdg±5dgt(100µF)         ±4.5%rdg±5dgt(100µF)         ±0.1%rdg±5dgt (Measurable input:1.5Vrms or more)         Duty       0.1~99.9%         ±2.5%rdg±5dgt (Pulse width / Pulse cycle)         General       The measured value can be hold by pressing Data hold buttot         Battery voltage warning       When the battery voltage drops to 2.4V±0.2V or less         Auto power-off       Built-in         Safety standard / EMC       IEC61010-1:2001 CAT. II 600V         IEC61326-1       Power source         Button type battery LR44(SR44)1.5V x 2         Dimensions       190(L)×39(W)×31(D)mm	DC V	400m/4/40/400/600V(5 Range auto)
Ω       400/4k/40k/400k/4M/40MΩ(6 Range auto)         ±1.0%rdg±5dgt(400Ω~4MΩ)       ±2.5%rdg±5dgt(400Ω)         Diode check       Test voltage approx. 0.3~1.5V         Continuity check       Buzzer sounds when resistance is 120Ω or less.         Capacitance       50n/500n/5μ/50μ/100μF(6 Range auto)         ±3.5%rdg±10dgt(50nF)       ±3.5%rdg±5dgt(100μF)         ±3.5%rdg±5dgt(100μF)       ±4.5%rdg±5dgt(100μF)         Frequency       5/50/500/5k/200kHz         ±0.1%rdg±5dgt (Measurable input:1.5Vrms or more)       0.1~99.9%         ±2.5%rdg±5dgt (Pulse width / Pulse cycle)       General         Data hold       The measured value can be hold by pressing Data hold buttor         Battery voltage warning       When the battery voltage drops to 2.4V±0.2V or less         Auto power-off       Built-in         Safety standard / EMC       IEC6100-1:2001 CAT.II 600V         IEC61326-1       Power source         Dimensions       190(L)×39(W)×31(D)mm		±0.8%rdg±5dgt(400mV~400V)
Line       ±1.0%rdg±5dgt(400Ω-4MΩ)         ±2.5%rdg±5dgt(40MΩ)         Diode check       Test voltage approx. 0.3-1.5V         Continuity check       Buzzer sounds when resistance is 120Ω or less.         Capacitance       50n/50n/5μ/J01/100μF(5 Range auto)         ±3.5%rdg±5dgt(500n-50μF)       ±3.5%rdg±5dgt(100μF)         ±4.5%rdg±5dgt(100μF)       ±4.5%rdg±5dgt(100μF)         Frequency       5/50/500/5k/50k/200kHz         ±0.1%rdg±5dgt (Measurable input:1.5Vrms or more)       0.1-99.9%         Duty       0.1-99.9%         ±2.5%rdg±5dgt (Pulse width / Pulse cycle)       General         Data hold       The measured value can be hold by pressing Data hold butto         Battery voltage warning       When the battery voltage drops to 2.4V±0.2V or less         Auto power-off       Built-in         Safety standard / EMC       IEC61010-1:2001 CAT.II 600V         IEC61010-031       IEC61326-1         Power source       Button type battery LR44(SR44)1.5V x 2         Dimensions       190(L)×39(W)×31(D)mm		±1.0%rdg±5dgt(600V)
±2.5%rdg±5dgt(40MΩ)         Diode check         Test voltage approx. 0.3~1.5V         Continuity check       Buzzer sounds when resistance is 1200 or less.         Capacitance       50n/500n/5µ/50µ/100µF(5 Range auto)         ±3.5%rdg±10dgt(50nF)         ±3.5%rdg±5dgt(100µF)         ±3.5%rdg±5dgt(100µF)         ±4.5%rdg±5dgt(100µF)         ±0.1%rdg±5dgt (Measurable input:1.5Vrms or more)         Duty       0.1~99.9%         ±2.5%rdg±5dgt (Pulse width / Pulse cycle)         General       The measured value can be hold by pressing Data hold butto         Battery voltage warning       When the battery voltage drops to 2.4V±0.2V or less         Auto power-off       Built-in         Safety standard / EMC       IEC61010-1:2001 CAT.II 600V         IEC61010-031       IEC61326-1         Power source       Button type battery LR44(SR44)1.5V x 2         Dimensions       190(L)×39(W)×31(D)mm	Ω	400/4k/40k/400k/4M/40MΩ(6 Range auto)
Diode check         Test voltage approx. 0.3~1.5V           Continuity check         Buzzer sounds when resistance is 120Ω or less.           Capacitance         50n/500n/5µ/50µ/100µF(5 Range auto) ±3.5%rdg±10dgt(50nF)           ±3.5%rdg±5dgt(500n-50µF)         ±3.5%rdg±5dgt(100µF)           ±4.5%rdg±5dgt(100µF)         ±4.5%rdg±5dgt(100µF)           Frequency         5/50/500/5k/50k/200kHz           ±0.1%rdg±5dgt (Measurable input:1.5Vrms or more)         0.1-99.9%           Duty         0.1-99.9%           ±2.5%rdg±5dgt (Pulse width / Pulse cycle)         General           Data hold         The measured value can be hold by pressing Data hold buttor           Battery voltage warning         When the battery voltage drops to 2.4V±0.2V or less           Auto power-off         Built-in           Safety standard / EMC         IEC61010-1:2001 CAT.II 600V           IEC61010-031         IEC61326-1           Power source         Button type battery LR44(SR44)1.5V x 2           Dimensions         190(L)×39(W)×31(D)mm		$\pm 1.0\%$ rdg $\pm 5$ dgt(400 $\Omega$ ~4M $\Omega$ )
Continuity check         Buzzer sounds when resistance is 120Ω or less.           Capacitance         50n/500n/5μ/50μ/100μF(5 Range auto)           ±3.5%rdg±10dgt(50nF)         ±3.5%rdg±5dgt(50n-50μF)           ±4.5%rdg±5dgt(100μF)         ±3.5%rdg±5dgt(100μF)           Frequency         5/50/500/5K/50k/200kHz           ±0.1%rdg±5dgt (Measurable input:1.5Vrms or more)         0.1-99.9%           ±2.5%rdg±5dgt (Pulse width / Pulse cycle)         General           Data hold         The measured value can be hold by pressing Data hold buttor           Battery voltage warning         When the battery voltage drops to 2.4V±0.2V or less           Auto power-off         Built-in           Safety standard / EMC         IEC61010-1:2001 CAT.II 600V           IEC61326-1         Power source           Button type battery LA44(SR44)1.5V x 2           Dimensions         190(L)×39(W)×31(D)mm		±2.5%rdg±5dgt(40MΩ)
Capacitance       50n/500n/5µ/50µ/100µF(5 Range auto)         ±3.5%rdg±10dgt(50nF)         ±3.5%rdg±5dgt(500n-50µF)         ±4.5%rdg±5dgt(100µF)         Frequency         5/50/500/5k/50k/200kHz         ±0.1%rdg±5dgt (Measurable input:1.5Vrms or more)         Duty       0.1-99.9%         ±2.5%rdg±5dgt (Pulse width / Pulse cycle)         General       0         Data hold       The measured value can be hold by pressing Data hold butto         Battery voltage warning       When the battery voltage drops to 2.4V±0.2V or less         Auto power-off       Built-in         Safety standard / EMC       IEC61010-1:2001 CAT.III 600V         IEC61010-031       IEC61326-1         Power source       Buttorn type battery LR44(SR44)1.5V x 2         Dimensions       190(L)×39(W)×31(D)mm	Diode check	Test voltage approx. 0.3~1.5V
±3.5%rdg±10dgt(50nF)         ±3.5%rdg±5dgt(500n-50µF)         ±3.5%rdg±5dgt(100µF)         ±4.5%rdg±5dgt(100µF)         Frequency       5/50/500/5k/50k/200kHz         ±0.1%rdg±5dgt (Measurable input:1.5Vrms or more)         Duty       0.1~99.9%         ±2.5%rdg±5dgt (Pulse width / Pulse cycle)         General         Data hold         Battery voltage warning         When the battery voltage drops to 2.4V±0.2V or less         Auto power-off         Safety standard / EMC         IEC61010-1:2001 CAT.II 600V         IEC61010-031         IEC61326-1         Power source       Buttorn type battery LR44(SR44)1.5V x 2         Dimensions       190(L)×39(W)×31(D)mm	Continuity check	Buzzer sounds when resistance is $120\Omega$ or less.
±3.5%rdg±5dgt(500n~50,µF)         ±4.5%rdg±5dgt(100,µF)         Frequency       5/50/500/5k/50k/200kHz         ±0.1%rdg±5dgt (Measurable input:1.5Vrms or more)         Duty       0.1-99.9%         ±2.5%rdg±5dgt (Pulse width / Pulse cycle)         General       The measured value can be hold by pressing Data hold butto         Battery voltage warning       When the battery voltage drops to 2.4V±0.2V or less         Auto power-off       Built-in         Safety standard / EMC       IEC61010-1:2001 CAT.II 600V         IEC61010-031       IEC61326-1         Power source       Buttorn type battery LR44(SR44)1.5V x 2         Dimensions       190(L)×39(W)×31(D)mm	Capacitance	50n/500n/5µ/50µ/100µF(5 Range auto)
±4.5%rdg±5dgt(100µF)         Frequency       5/50/500/5k/50k/200kHz         ±0.1%rdg±5dgt (Measurable input:1.5Vrms or more)         Duty       0.1~99.9%         ±2.5%rdg±5dgt (Pulse width / Pulse cycle)         General         Data hold       The measured value can be hold by pressing Data hold buttor         Battery voltage warning       When the battery voltage drops to 2.4V±0.2V or less         Auto power-off       Built-in         Safety standard / EMC       IEC61010-1:2001 CAT. II 600V         IEC61010-031       IEC61326-1         Power source       Button type battery LR44(SR44)1.5V x 2         Dimensions       190(L)×39(W)×31(D)mm		±3.5%rdg±10dgt(50nF)
Frequency       5/50/500/5k/50k/200kHz         ±0.1%rdg±5dgt (Measurable input:1.5Vrms or more)         Duty       0.1-99.9%         ±2.5%rdg±5dgt (Pulse width / Pulse cycle)         General         Data hold       The measured value can be hold by pressing Data hold buttor         Battery voltage warning       When the battery voltage drops to 2.4V±0.2V or less         Auto power-off       Built-in         Safety standard / EMC       IEC61010-1:2001 CAT. III 600V         IEC61010-031       IEC61326-1         Power source       Buttorn type battery LR44(SR44)1.5V x 2         Dimensions       190(L)×39(W)×31(D)mm		±3.5%rdg±5dgt(500n~50µF)
±0.1%rdg±5dgt (Measurable input:1.5Vrms or more)         Duty       0.1~99.9%         ±2.5%rdg±5dgt (Pulse width / Pulse cycle)         General         Data hold       The measured value can be hold by pressing Data hold butto         Battery voltage warning       When the battery voltage drops to 2.4V±0.2V or less         Auto power-off       Built-in         Safety standard / EMC       IEC61010-1:2001 CAT.II 600V         IEC61010-031       IEC61326-1         Power source       Buttorn type battery LR44(SR44)1.5V x 2         Dimensions       190(L)×39(W)×31(D)mm		$\pm 4.5\%$ rdg $\pm 5$ dgt(100 $\mu$ F)
Duty     0.1-99.9%       ±2.5%rdg±5dgt (Pulse width / Pulse cycle)       General       Data hold       Battery voltage warning       Auto power-off       Safety standard / EMC       IEC61010-1:2001 CAT. II 600V       IEC61010-031       IEC61326-1       Power source       Buttor type battery LR44(SR44)1.5V x 2       Dimensions     190(L)×39(W)×31(D)mm	Frequency	5/50/500/5k/50k/200kHz
±2.5%rdg±5dgt (Pulse width / Pulse cycle)           General         The measured value can be hold by pressing Data hold buttor           Battery voltage warning         When the battery voltage drops to 2.4V±0.2V or less           Auto power-off         Built-in           Safety standard / EMC         IEC61010-1:2001 CAT. II 600V           IEC61010-031         IEC61326-1           Power source         Button type battery LR44(SR44)1.5V x 2           Dimensions         190(L)×39(W)×31(D)mm		±0.1%rdg±5dgt (Measurable input:1.5Vrms or more)
General     The measured value can be hold by pressing Data hold butto       Battery voltage warning     When the battery voltage drops to 2.4V±0.2V or less       Auto power-off     Built-in       Safety standard / EMC     IEC61010-1:2001 CAT. II 600V       IEC61010-031     IEC61326-1       Power source     Button type battery LR44(SR44)1.5V x 2       Dimensions     190(L)×39(W)×31(D)mm	Duty	0.1~99.9%
Data hold         The measured value can be hold by pressing Data hold buttor           Battery voltage warning         When the battery voltage drops to 2.4V±0.2V or less           Auto power-off         Built-in           Safety standard / EMC         IEC61010-1:2001 CAT. II 600V           IEC61010-031         IEC61326-1           Power source         Button type battery LR44(SR44)1.5V x 2           Dimensions         190(L)×39(W)×31(D)mm		±2.5%rdg±5dgt (Pulse width / Pulse cycle)
Battery voltage warning Auto power-off     When the battery voltage drops to 2.4V±0.2V or less Built-in       Safety standard / EMC     IEC61010-1:2001 CAT. II 600V IEC61010-031 IEC61326-1       Power source     Button type battery LR44(SR44)1.5V x 2       Dimensions     190(L)×39(W)×31(D)mm	General	
Auto power-off         Built-in           Safety standard / EMC         IEC61010-1:2001 CAT. II 600V           IEC61010-031         IEC61326-1           Power source         Button type battery LR44(SR44)1.5V x 2           Dimensions         190(L)×39(W)×31(D)mm	Data hold	The measured value can be hold by pressing Data hold button
Safety standard / EMC         IEC61010-1:2001 CAT. II 600V           IEC61010-031         IEC61326-1           Power source         Button type battery LR44(SR44)1.5V x 2           Dimensions         190(L)×39(W)×31(D)mm	Battery voltage warning	When the battery voltage drops to 2.4V±0.2V or less
IEC61010-031           IEC61326-1           Power source         Button type battery LR44(SR44)1.5V x 2           Dimensions         190(L)×39(W)×31(D)mm	Auto power-off	Built-in
IEC61326-1           Power source         Button type battery LR44(SR44)1.5V x 2           Dimensions         190(L)×39(W)×31(D)mm	Safety standard / EMC	IEC61010-1:2001 CAT. II 600V
Power source         Button type battery LR44(SR44)1.5V x 2           Dimensions         190(L)×39(W)×31(D)mm		IEC61010-031
Dimensions 190(L)×39(W)×31(D)mm		IEC61326-1
	Power source	Button type battery LR44(SR44)1.5V x 2
	Dimensions	190(L)×39(W)×31(D)mm
Weight Approx. 100g (including batteries)	Weight	Approx. 100g (including batteries)
Accessories Carrying case, LR44(1.5V) x 2, Instruction manual	Accessories	Carrying case, LR44(1.5V) x 2, Instruction manual

#### Instrument layout



#### ①Test lead (input terminal(+);red)

#### ②Test lead (input terminal(-);black)

: Connected to the negative (-) side or the earth of the circuit.

#### ③Protection cover

: Covering the Test pin for safety purpose.

- (4)LED light (5)Barrier (6)Function switch (7)Hold key
- 8 Select key 9 LCD display

### Functions for Easy to Use.

# Long life LED light is of good use in dark place Protection cover prevents unforeseen accident Pull up and turn. then, cover Wrapping mechanism for test lead in rear side compartment

\*Length of test lead is adjustable in 3 steps, ie, 60 cm, 40 cm and 20 cm.



Please read the "Safety Warnings" in the instruction manual supplied with the instrument thoroughly and Safety Warnings : completely for correct use. Failure to follow the safety rules can cause fire, trouble, electrical shock, etc. Therefore, make sure to operate the instrument on a correct power supply and voltage rating marked on each instrument.

Close the lid after taking out the test lead through upper

right hand side hole

For inquires or orders :

Open the lid in rear side.



#### **KYORITSU ELECTRICAL INSTRUMENTS** WORKS, LTD.

Use the test lead without difficulty.

No.5-20, Nakane 2-chome, Meguro-ku, Tokyo, 152-0031 Japan Phone:81-3-3723-0131 Fax:81-3-3723-0152 URL:http://www.kew-ltd.co.jp E-mail:info@kew-ltd.co.jp Factories:Uwajima & Ehime

Release test lead from holder.\*