KUSAM-MECO®

An ISO 9001:2015 Company

3¾ DIGITS DUAL LCD DISPLAY DIGITAL CLAMP + MULTI METER

THINK SAFETY
THINK KUSAM-MECO®

12 FUNCTIONS 31 RANGES

Model 2799

FIRST TIME IN INDIA



SPECIAL FEATURES :

- For HVAC application
- Fully auto ranging on all functions.
- Overload protection on all ranges.
- Data - Hold, Max. Hold function
- Simultaneous A + V, A + Ω, A + °C
- Diode test & fast audible continuity
- Auto power off

SAFETY :

- **Safety :** Meets IEC61010-2-032(1994), EN61010-2-032(1995), UL3111-2-032(1999), CAT III 600V AC & DC.
- **Transient protection :** 6.5KV (1.2/50µS surge)
- **Pollution degree :** 2
- **E.M.C. :** Meets EN61326 (1997, 1998/A1), EN61000-4-2(1995), and EN61000-4-3(1996)
  In an RF field of 3V/m :
  Capacitance function is not specified
  µA : Total Accuracy =
  Specified Accuracy + 65 digits
  Other function ranges : Total Accuracy =
  Specified Accuracy + 45 digits
  Performance above 3V/m is not specified
- **Overload protections :**
  ACA Clamp-on jaws : AC 600A RMS continuous
  + / µA & COM terminals : 600V DC / V AC RMS
- **Rugged fire retarding casing with splash proof construction.**

GENERAL SPECIFICATIONS :

- **Sensing :** Average sensing.
- **Jaw Opening Size :** 26mm Max.
- **Display :** 3¾ digits 4000 counts LCD displays
- **Update Rate :** 3 per second nominal
- **Polarity :** Automatic
- **Low Battery :** Below approx. 2.4V
- **Operating Temperature :** 0°C to 40°C,<80% R.H.
- **Storage Temperature :** -20°C to 60°C,<80% RH (with battery removed)
- **Temperature Coefficient :** Nominal 0.15x (specified accuracy)/°C @(0°C-18°C or 28°C-40°C) or otherwise specified
- **Altitude :** Operating below 2000m
- **Power supply :** Standard 3V coin batteries x 2
- **Power Consumption :** 2.8 mA typical except that 3.3mA typical for ACA function
- **APO Timing :** Idle for 30 minutes
- **APO Consumption :** 5µA typical except that 40µA typical on Voltage function
- **Dimension :** 190(L)mm x 63(W)mm x 32(H)mm
- **Weight :** 139gm approx.

ACCESSORIES :

Test leads(pair), Batteries installed, User's manual, Carrying Case & Banana plug type-K bead probe Bk60 x 1

OPTIONAL ACCESSORIES :

Banana pins to type-K socket plug adapter Bk32

ELECTRICAL SPECIFICATIONS : 2799

Accuracy : ± (% reading digits + number of digits) otherwise specified, at 23°C ± 5°C & less than 75% R.H.

AC CURRENT (Clamp-on) (50Hz / 60Hz)

Range	Resolution	Accuracy[1][2][3]
40.00 A	10 mA	±(1.5%rdg + 8dgts)
400.0 A	100 mA	
600 A	1 A	

[1] induced error from adjacent current-carrying conductor : 0.05/A
[2] Specified accuracy is from 10% to 100% of range & for measurement made at the jaw center. When the conductor is not positioned at the jaw center, position errors introduced are :
Add 2% to specified accuracy for measurements made BEYOND jaw marking lines (toward jaw opening)
[3] Add 8dgts to specified accuracy @ reading < 10% of range

AC VOLTAGE (50 Hz~500 Hz)

Range	Resolution	Accuracy
4.000 V	1 mV	±(1.5%rdg + 5dgts)
40.00 V	10 mV	
400.0 V	100 mV	
600 V	1 V	±(2.0%rdg + 5dgts)

CMRR : >60dB @ DC to 60Hz, Rs=1KΩ
Input Impedance : 10MΩ, 30pF nominal

TEMPERATURE (K-TYPE THERMOCOUPLE)

Range	Accuracy
-20°C ~ 300°C	±(2%rdg + 3°C)
301°C ~ 537°C	±(3%rdg + 3°C)
-4°F ~ 572°F	±(2%rdg + 6°F)
573°F ~ 999°F	±(3%rdg + 6°F)

Type-K Thermocouple range & accuracy not included.
Supplied K-type Thermocouple is suitable upto 250°C

DIODE TEST

Open Circuit Voltage	Test Current (Typical)
< 1.6 VDC	0.25 mA

DC VOLTAGE

Range	Resolution	Accuracy
400.0 mV	100 µV	±(0.3%rdg + 4dgts)
4.000 V	1 mV	±(0.5%rdg + 3dgts)
40.00 V	10 mV	
400.0 V	100 mV	
600 V	1 V	±(1.0%rdg + 4dgts)

NMRR : > 50dB @ 50 / 60Hz
CMRR : > 120dB @ DC, 50 / 60Hz, Rs = 1kΩ
Input Impedance : 10MΩ, 30pF nominal
(1000MΩ for 400.0mV range)

RESISTANCE

Range	Resolution	Accuracy
400.0 Ω	100 mΩ	±(0.8%rdg + 8dgts)
4.000 kΩ	1 Ω	±(0.6%rdg + 4dgts)
40.00 kΩ	10 Ω	
400.0 kΩ	100 Ω	
4.000 MΩ	1 kΩ	±(1.0%rdg + 4dgts)
40.00 MΩ	10 kΩ	±(2.0%rdg + 4dgts)

Open Circuit Voltage : 0.4V DC typical

CAPACITANCE

Range [1]	Accuracy [2][3]
500.0nF, 5.000µF,	±(3.5%rdg + 6dgts)
50.00µF, 500.0µF,	
3000µF	

[1] Additional 50.00nF range accuracy is not specified
[2] Accuracies with film capacitor or better
[3] Specified with battery voltage above 2.8V (approximately half full battery).
Accuracy decreases gradually to 12% at low battery warning voltage of approximately 2.4V.

AC µA (Via Socket)

Range	Burden Voltage	Accuracy
50Hz - 500Hz		
400.0 µA	2.8 mV/µA	±(2.0%rdg + 5dgts)
2000 µA		±(1.5%rdg + 5dgts)

DC µA(Via Socket)

Range	Burden Voltage	Accuracy
400.0 µA	2.8 mV/µA	±(2.0%rdg + 4dgts)
2000 µA		±(1.2%rdg + 3dgts)

FREQUENCY

Function	Sensitivity (Sine RMS)	Range
400.0 mV	150 mV	10Hz -- 2KHz
4.000 V	3.2 V	5Hz -- 40KHz
40.00 V	25 V	5Hz -- 100KHz
400.0 V	100 V	5Hz -- 100KHz
600 V	400 V	5Hz -- 25KHz
400.0 µA	500 µA	10Hz -- 30KHz
2000 µA	500 µA	10Hz -- 30KHz

Display Counts : 5000 **Best resolution :** 0.001Hz
Accuracy : ±(0.5%rdg + 4dgts)

Max Hold (where applicable)

Specified accuracy ± 50 digits for changes > 25ms in duration

All Specifications are subject to change without prior notice

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