

KUSAM-MECO® 4-20mA DC PROCESS CLAMP METER

An ISO 9001:2008 Company

6 FUNCTIONS 2 RANGES

Model KM 071

The KM 071 Milliamp Process Clamp Meter is a Hand-held battery operated clamp meter that measures 4-20 mA DC without breaking the electrical circuit. Unlike conventional clamp meters, this meter features a small jaw that easy to reach any place there is a cable carrying with a current.. This meter takes a magnetic modulated technology, it can reach excellent sensitivity with great anti Earth Magnetical Field ability.

GENERAL SPECIFICATIONS :

- * Jaw Opening size : 5 mm max.
- * DC mA measurement (4-20mA); 0-40mA
- * Electronic Zero
- * Percentage span (0-100%)
- * Backlight display
- * Measurement spotlight LED
- * Data Hold
- * Operating Temperature : -10°C to 50°C
- * Storage Temperature : -25°C to 70°C
- * Operating Humidity : < 90% @ < 30°C, < 75% @ 30 to 50°C
- * Power Supply : 9V battery, IEC LR6
- * Dimension : 59 (H) X 38 (W) X 212 (L) mm
- * Weight : Approx. 260 gm (battery included)



ELECTRICAL SPECIFICATIONS - KM 071

CURRENT RANGE DC

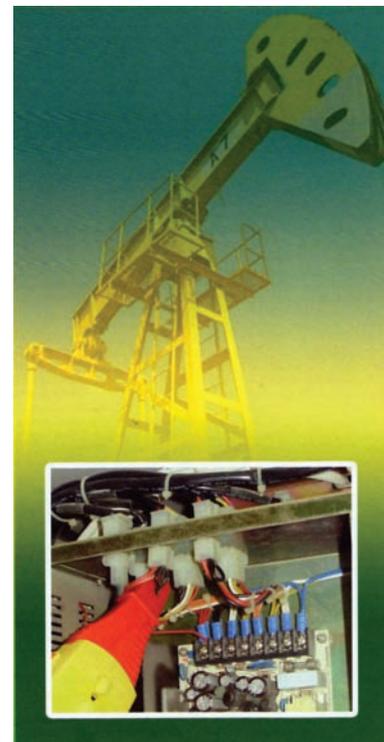
Range	Resolution	Accuracy
± 40.00mA DC	0.01mA	±(0.5% rdg + 5 dgts)

Maximum Reading : ± 40.00mA

Error by Earth Magnetic Field : < ± 0.20mA

PERCENTAGE SPAN

20mA DC	100%	4mA DC	0%
16 mA DC	75%	3.6mA DC	-2.5%
12mA DC	50%	3.2mA DC	-5.0%
8mA DC	25%	2mA DC	-12.5%



All Specifications are subject to change without prior notice

KUSAM-MECO®
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G-17, Bharat Industrial Estate, T. J. Road, Sewree (W), Mumbai - 400 015. INDIA.
Sales Direct.: 022 -2 4156638, Tel. : 022-241224540, 24181649, Fax : 022 - 24149659
Email : kusam_meco@vsnl.net, Website : www.kusamelectrical.com

LIST OF PRODUCTS

- * Digital Multimeter
- * Digital AC & AC/DC Clampmeter
- * AC Clamp Adaptor
- * AC/DC Current Adaptor
- * Thermo Anemometer
- * Thermo Hygrometer
- * Distance Meter
- * Digital Lux Meter
- * Network Cable Tester
- * Power Factor Regulator
- * Earth Resistance Tester
- * Digital Panel Meters
- * DC Power Supplies
- * High Voltage Detector
- * Calibrators
- * Gas Analysers
- * Frequency Counter
- * Function Generator
- * Phasing Sticks
- * Battery Tester
- * Waterproof Pen Testers
- * Solar Power Meter
- * EMF Detector
- * Wood, Paper & Grain Moisture Meter
- * Transistorised Electronic Analog & Digital Insulation Resistance Testers(upto 10 KV)
- * Digital Sound Level Meter & Sound Level Calibrator
- * Digital contact & Non-contact Type Tachometer
- * Digital Non-contact (infrared) Thermometer
- * Maximum Demand Controller/Digital Power Meter
- * Digital Hand Held Temperature Indicators

KUSAM-MECO[®]

**MILLIAMP PROCESS
CLAMP METER
MODEL - KM 071**

**OPERATION
MANUAL**

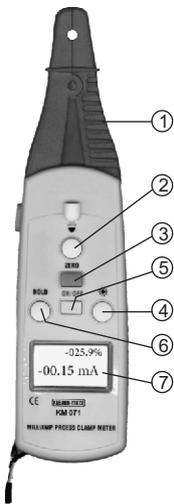
MILLIAMP PROCESS CLAMP METER MODEL - KM 071



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3. PRODUCT DESCRIPTION



1. **Transformer jaw** : Pick up the DC flowing through the conductor.
2. **Spotlight button** : Turn the Spotlight on or off.
3. **Zero button** : Removes offset and zeros the display.
4. **Backlight button** : Turn on or off the backlight of LCD.
5. **Power Switch** : Turn on or off the meter.
6. **HOLD button** : Captures and holds the current reading.
7. **LCD** : Display the current value and percentage.

4. ELECTRICAL SPECIFICATIONS :

- **Current Ranges** : $\pm 40.00\text{mA}$
- **Resolution** : 0.01mA
- **Accuracy** : $\pm 0.5\%$ of reading ± 5 digits
- **Maximum Reading** : $\pm 40.00\text{mA}$
- **Error by Earth Magnetic Field** : $< \pm 0.20\text{mA}$

5. OPERATION & MEASUREMENT :

The following sections give more detail about the Meter's features.

5.1 Operation

The percentage Span feature displays the span for 4 to 20mA loops.

20 mA	100%	4 mA	0 %
16 mA	75 %	3.6 mA	-2.5 %
12 mA	50 %	3.2 mA	-5.0 %
8 mA	25 %	2 mA	-12.5%

5.2 Zero Adjustment

Before taking each measurement, press the ZERO button to zero the display by removing DC offset. Make sure the clamp jaws are closed and no current is flowing through them.

5.3 Backlight

Press the backlight button to turn the backlight on or off.

5.4 Measurement Spotlight LED

The measurement Spotlight LED helps to quickly find mA signal wires. Press the Spotlight button to turn the Spotlight on or off.

5.5 Display HOLD

Warning

To avoid electric shock, when Display HOLD is activated, the display will not change when a different current is applied.

Press the HOLD button to activate Display Hold mode.

The symbol "DH" are displayed and the Meter freezes the display. To exit & return to normal operation, press the HOLD button a second time.

Warning

The Clampmeter is not for use on non-insulated conductors.

Measurements can be taken with the clamp approach into any position.

For accurate measurements :

- Always zero the Meter prior to taking measurements.
- Zero the Meter as close to the measurement source position as possible.
- Make sure the clamp is free of contamination.

Note :

To reduce magnetic influences, zero the Meter in the same position or jaw direction that is used for the measurement.

6. MEASUREMENT

- With the clamp disconnected from any conductor, press the power switch to turn the meter ON. Then, you might wait for about 5 seconds.
- Clamp the jaw around the conductor under test. The meter displays the measured conductor current.
- A positive reading indicates current flowing in the direction of the arrow on the clamp.
- A negative reading indicates current flowing in the opposite direction of the arrow.
- Do not clamp more than one wire. Currents cancel and no results are returned.

The small secondary display shows the reading in terms of percentage span.

7. BATTERY REPLACEMENT

WARNING

To avoid false readings, that could lead to possible electric shock or personal injury, replace the battery as soon as the low battery indicator “” appears.

To replace the battery :

1. Turn the Meter off
2. Use a flat head screwdriver to loosen the battery compartment door screw, and remove the door from the case bottom.
3. Remove the battery.
4. Replace the battery with a new 9V battery.
5. Reattach the battery compartment door to the case bottom and tighten the screw.

MUMBAI

TEST CERTIFICATE

MILLIAMP PROCESS CLAMP METER

This Test Certificate warrants that the product has been inspected and tested in accordance with the published specifications.

The instrument has been calibrated by using equipment which has already been calibrated to standards traceable to national standards.

MODEL NO. **KM 071**

SERIAL NO. _____

DATE: _____

ISO 9001
REGISTERED





WARRANTY

Each "KUSAM-MECO" product is warranted to be free from defects in material and workmanship under normal use & service. The warranty period is one year (12 months) and begins from the date of despatch of goods. In case any defect occurs in functioning of the instrument, under proper use, within the warranty period, the same will be rectified by us free of charges, provided the to and fro freight charges are borne by you.

This warranty extends only to the original buyer or end-user customer of a "KUSAM-MECO" authorized dealer.

This warranty does not apply for damaged Ic's, fuses, burnt PCB's, disposable batteries, carrying case, test leads, or to any product which in "KUSAM-MECO's" opinion, has been misused, altered, neglected, contaminated or damaged by accident or abnormal conditions of operation or handling.

"KUSAM-MECO" authorized dealer shall extend this warranty on new and unused products to end-user customers only but have no authority to extend a greater or different warranty on behalf of "KUSAM-MECO".



"KUSAM-MECO's" warranty obligation is limited, at option, free of charge repair, or replacement of a defective product which is returned to a "KUSAM-MECO" authorized service center within the warranty period.

THIS WARRANTY IS BUYER'S SOLE AND EXCLUSIVE REMEDY AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. "KUSAM-MECO" SHALL NOT BE LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES OR LOSSES, INCLUDING LOSS OF DATA, ARISING FROM ANY CAUSE WHATSOEVER.

All transaction are subject to Mumbai Jurisdiction.



G 17, Bharat Industrial Estate, T. J. Road,
Sewree (W), Mumbai - 400 015. INDIA.

Sales Direct : (022) 24156638

Tel. : (022) 24124540, 24181649.

Fax : (022) 24149659

Email : kusam_meco@vsnl.net

Website : www.kusamelectrical.com

www.kusam-meco.co.in