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AN ISO 9001:2008 COMPANY

PHASE SEQUENCE INDICATOR

MODEL - KM 981 MK-1

OPERATION MANUAL

PHASE SEQUENCE INDICATOR MODEL - KM 981MK-1



1. Introduction :

This meter is based on Second Safety Standard of "Safety requirements of Electronic Measuring Instruments". The instrument is convenient, quick measuring, and safe. The open phase condition and phase sequence can be checked by LED and Buzzer.

2. Features :

Operational Voltage : 60 ~ 600V (3 Phases AC)

Limit support Voltage : 2000V / minute (impulse
Voltage 4000V)

Measuring frequency range : 20Hz ~400Hz

Time limit for continuous measurement :

Less than 60 minutes at 200V AC

Less than 4 minutes at 600V AC

Meter Size : 85 x 64 x 23mm
(exclude the measuring lead)

Meter Weight : Approximate 200g

Attachment : Measuring lead, Strap,
Operation Manual and
Carrying case.

3. Specification :

1. Open phase check by LED :

3 Orange LED, show R Phase, Y Phase, and B Phase Respectively.

2. Phase sequence check through LED :

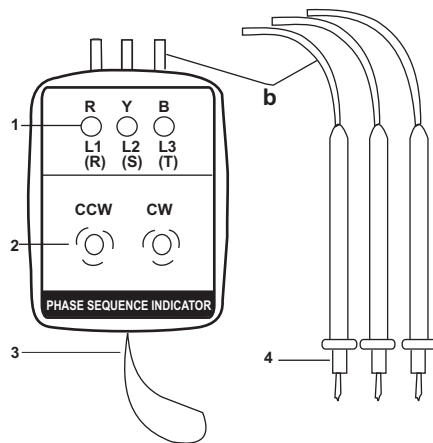
A Red LED and a Green LED

3. Wrist Strap :

Wrist strap to avoid the meter from falling.

4. Measuring Lead :

Red lead is corresponding R Phase (L1,R); Yellow is corresponding Y Phase (L2,S); Green is corresponding B Phase (L3, T) Carrying case.



4. Operation Method :

Connect the meter leads and measuring wire together (Do not use hand directly). At that time, meter will show the phase and phase order.

Measuring result	Open phase check by LED	Phase order check by LED	Buzzer
Correct phase (CW)	All 3 orange LED light	Green LED light	Intermittent beep
Reverse phase (CCW)	All 3 orange LED light	Red LED light	Continuous beep
Open phase (one phase only)	Orange LED for open phase are off	Both green and red LED are off	Continuous beep

5. NOTE :

1. The meter is high voltage equipment, so check-up before connecting to supply. If there appears the following stop measuring :
 - A. Broken body or lead wire.
 - B. Damage in transit.
 - C. Store in wet places for long time.
2. Do not open the cover of meter when measuring or the circuit is connected to line.
3. Do not touch the metal of meter leads directly.
4. To do not connect to circuit voltage more than 600V.
5. Time limit for continuous measurement is 60 minutes at 200V AC and 4 minutes at 600V AC.
6. Do not use it in open air or other wet places.
7. Do not let it touch water or other liquid or expose to direct sun.
8. Only trained persons should open its cover.
9. Users should take special training and operate as per this manual.
10. Put this manual carefully at a easily accessible place.

MUMBAI

TEST CERTIFICATE
PHASE SEQUENCE INDICATOR

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 981MK-1**

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 transactions are subject to Mumbai Jurisdiction.

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