



Megger PSI410 Phase Sequence Indicator User Manual

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SAFETY WARNINGS

Safety warnings must be read and understood before instrument is used.

The following safety information must be observed to insure maximum personal safety during the operation of this instrument:

- Do not use in wet environments.
- It is recommended that wherever possible isolate the circuit to be tested while connecting and disconnecting test leads.
- Test leads and prods must be in good order, clean, and with no broken or cracked insulation.
- Replacement test lead fuses must be of the correct type and rating.
- This instrument must not be used if any part of it is damaged.
- The unit is for intermittent tests only, it must not be used for continuous monitoring of phase rotation.
- Warnings and precautions must be read and understood before an instrument is used. They must be observed during the operation of this instrument.

Note: This instrument must only be used by suitably trained and competent persons

INTRODUCTION

The Megger PSI410 phase rotation indicator provides rapid indication of correct phase sequence utilizing a three dual cultured sequencing LED display and a specific audible tone.

To avoid the display rotating at the supply frequency the unit has been designed to provide a slow rotational speed of the display to allow easy indication of rotation.

Dual phase colour coding has been adopted for the PSI410 to allow ease of use on both Brown / Black / Grey and Red / Yellow / Blue colour coded supplies.

The PSI410 also features a triple dual cultured LED display that indicates that all three phases are present.

INSTRUCTIONS

As both croc clips and prods are supplied with the unit, select the preferred method of the connection and connect to the test leads. The croc clip option will allow isolation of the supply during connecting and disconnecting the test leads.

The dual cultured LED display at the top of the PSI410 indicates the state of each of the connected phases with a

green cultured LED indicating the phase is present while a red cultured LED shows a missing phase connection. This feature enables a graphic display of a good connection when using the test prod option and will indicate a phase which has a substantial lower voltage than the other two phases.

Connect the test leads following the circuit's applicable cable colour code and once all three phases are connected observe the direction of rotation and colour on the sequencing LED display on the PSI410.

Clockwise rotation is indicated by clockwise rotating green LEDs with a continuous tone and counter clockwise rotation has counter clockwise rotating red LEDs and a warbling tone. If a failure of the rotating displays is observed then check the test lead connection while monitoring the phase status LEDs.

The unit is for intermittent use only and must not be permanently connected to the supply.

CATIV – Measurement category IV: Equipment connected between the origin of the low-voltage mains supply outside the building and the consumer unit.

CATIII – Measurement category III: Equipment connected between the consumer unit and the electrical outlets.

CATII – Measurement category II: Equipment connected between the electrical outlets and the user's equipment.

SPECIFICATIONS

Rotation display: 3 x red / green LEDs

Phase connection status indication: 3 x red / green LEDs

Phase present indication = 195 to 265 V

Audible rotation tone: Clockwise rotation = continuous tone Counter clockwise = warble tone (0.4 s on / 0.4 s off)

Maximum voltage (phase to phase): 500 V

Frequency: 50 Hz +/- 1 %

Phase colour coding: L1 (Brown / Red) L2 (Black / Yellow) L3 (Grey / Blue)

Power supply: Power drawn from a minimum of two phases connected in any position

Operating ambient: 5 ° – 40 °C < 80 % RH

Storage temperature: 0 – 40 °C

Safety: The instrument complies with IEC61010-1:2010 CATIV 600 V

Dimensions (W x H x D): 78 mm x 137 mm x 31 mm

Test lead length: 830 mm

Test lead fuse rating: SIBA 10 A 600 V

Weight: 850g

Usage: The PSI410 is suitable for intermittent tests only and should not be used for continuous monitoring of phase rotation

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Documents / Resources

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References

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