

# PSI410

## Phase Sequence Indicator



- LED clockwise and counter clockwise phase rotation indication
- Audible indication of direction
- Phase condition LEDs
- Fused test leads
- Croc clips and prods provided
- Dual phase colour identification

---

### DESCRIPTION

Electrical work on commercial and industrial installations often requires working on motorised machinery with three phase supplies. Correct sequence of the phases is important with certain motors and pumps as damage to brakes and valves will occur in minutes with incorrect phasing.

The Megger PSI410 phase rotation indicator provides rapid indication of correct phase sequence utilising a three bi-coloured LED display and a specific audible tone. 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.

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 bi-coloured LED display that indicates that all three phases are present. A green LED indicates the phase is present while a red LED shows a missing phase connection.

The unit has a tough rugged case designed for an industrial environment and is supplied with long fused test leads with croc-clips and prods. The prods have insulated tips that provide less than 4 mm exposed tip.

The PSI410 is self powered from the supply and requires no batteries.

### APPLICATIONS

The PSI410 is an ideal addition to an electrician's tool kit where currently owned test instruments do not feature phase rotation. The unit provides a quick and simple means of checking phase sequence on motor, pump and air conditioning three phase supplies.

## SPECIFICATIONS

**Rotation display** 3 x red / green LEDs

**Phase connection status indication**  
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 CAT IV 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** 850 g

## Usage

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

## ORDERING INFORMATION

| Item (Qty)                      | Cat. No. |
|---------------------------------|----------|
| PSI410 Phase sequence indicator | 1001-612 |
| <b>Included accessories</b>     |          |
| Croc clips and Prods            |          |

**UK**  
Archcliffe Road Dover  
CT17 9EN England  
T +44 (0) 1304 502101  
F +44 (0) 1304 207342  
UKsales@megger.com

**UNITED STATES**  
4271 Bronze Way  
Dallas TX 75237-1019 USA  
T 800 723 2861 (USA only)  
T +1 214 333 3201  
F +1 214 331 7399  
USsales@megger.com

**OTHER TECHNICAL SALES OFFICES**  
Valley Forge USA, College Station USA,  
Sydney AUSTRALIA, Täby SWEDEN, Ontario  
CANADA, Trappes FRANCE, Oberursel  
GERMANY, Aargau SWITZERLAND, Kingdom  
of SAUDI ARABIA, Mumbai INDIA, Johannesburg  
SOUTH AFRICA, Chonburi THAILAND

**CERTIFICATION ISO**  
Registered to ISO 9001:2008 Cert. no. Q 09250  
Registered to ISO 14001:2004 Cert. no. EMS 61597

**PSI410\_DS\_en\_V01**  
[www.megger.com](http://www.megger.com)  
Megger is a registered trademark