

 KEW TECHNIK

 SOCKET
& SEE

Your Guide to Easy Phase Finding

and instructions
for use of
EPF 10 Quick Test
EPF 20 Craftsman
EPF 30 Professional



Easy Phase Finder

a new concept in locating
the true live supply

Anyone who has used phase (live conductor) detection devices to locate the true live supply will know the frustration of false indications.

With lights flashing and beepers sounding off at every opportunity it is small wonder that so many live cables are cut causing potentially serious accidents.

We also have the typical service feed into a premises where the connection must guarantee the main service cut out fuse is really in the phase - live feed

● With all the New Easy Phase Finders -

**THE USER IS NOT REQUIRED TO OPERATE
TOUCH PADS OR ANY OTHER DIRECT
CONTACT DEVICE -**

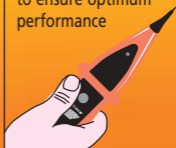
a big advance in Safety.



**SOCKET
& SEETM**

**Hold your
Easy Phase Finder
in this position**

to ensure optimum
performance



Product Overview



EPF 10 Quick Test Easy Phase Finder

- Low cost solution to finding the phase - live supply
- Bright LED gives clear to read indication from dim to bright conditions
- Construction and finger guard configuration give full conformance with latest Euronorm safety standards
- Fully drop proof from 2 metres gives robust working life

EPF 20 Craftsman Easy Phase Finder

All the features of EPF 10 PLUS:

- Built-in push button self test to guarantee correct working
- Bright LED **Plus** continuous audible tone to indicate found phase - live supply

EPF 30 Professional Easy Phase Finder

All the features of EPF 20 PLUS:


- Patented TPL (True Phase Locator®) Technology finds the true phase supply even in the presence of open circuit conductors
- Auto power off to conserve battery life
- Supplied complete with tough nylon carry case (FFR HLT).

Battery Installation

Before operation of your Kew Technik Phase Finder a MN 1604 (or similar) 9V battery (not supplied) must be correctly installed.

Remove the screw securing the battery compartment (be careful not to lose it). Slide the cover down and connect battery ensuring correct polarity.

After insertion of the battery it is essential to test for correct function before use.



*Remove screw
(do not lose it) and
slide off cover to
replace batteries.*

Pre-Use Check

EPF 10 Quick Test - test by placing the tip on a known live source, the red LED should light

EPF 20 Craftsman - press and hold the self test button the red LED should light with a continuous tone to indicate correct operation.

EPF 30 Professional - press and release the test button, the red LED will blink with an audible bleep to indicate correct operation and memory scanning functions operating. Press and hold down for over one second for off.

Note auto power is a feature to conserve battery life. The unit will auto power off after three minutes of inactivity.

Operating Instructions

With all three Models **EPF 10**, **EPF 20** and **EPF 30** the tip should be placed in (firm) contact with the terminals or exposed cables under test - live conductor(s) found will be indicated by:

EPF 10 Quick Test - A bright red LED

EPF 20 Craftsman - A bright red LED and continuous tone

EPF 30 Professional - A bright red LED and continuous tone (after switch on **EPF 30** will give flashing LED and bleep to indicate correctly operating plus scanning function).



Holding the Instrument

Uniform sensitivity in operation will be achieved by holding the phase finder in the position illustrated on page 2, gripping the unit fully in the hand, and not changing your grip during testing. The raised finger guard protects against accidental contact with the conductor. Always keep fingers below the guard as shown.

EPF 30 Professional Scanning Feature:

One problem for all single pole contact and non contact devices is the FALSE LIVE indication of 'floating' (typically open circuit) conductor(s) that are in the proximity of the true live conductors. **EPF 30 Professional** uses Patented 'True Phase Locate' memory scanning to eliminate false signals to give a clear and positive indication of true live phase(s) found with a continuous bright red LED and continuous tone.

The test button can be momentarily pressed at any time to clear and reset the memory function (this feature helps to 'focus' on true live conductors if there are many open circuit conductors in a cable bundle or terminal block).

To use the memory scanning feature momentarily press the memory scanning button (to reset the memory) and sequentially touch the tip to each conductor.

If the **EPF 30 Professional** still detects more than one live signal repeat the test **KEEPING THE TIP IN PLACE ON EACH CONDUCTOR FOR A MINIMUM OF 2 SECONDS** so the memory can 'lock' the true signal until only true live conductors are found.

Warning

By the law of chance you may contact the live cable first (or you may choose to check what you assume is the live cable first). Clearly the true phase locate memory function will then eliminate all lower voltage cables **WHICH MAY STILL BE CARRYING VOLTAGES GREATER THAN 50V AC.**

It is always good practice to hit the memory re-set button and re-test any conductors or terminals **BEFORE** attempting to handle or cut them **AS EVEN INDUCED VOLTAGES CAN BE DANGEROUS.**

Explanation of symbols used on instrument



CAT III 300V

- Installation Category III classification 300V a.c to Earth



The phase finder is double insulated



Hazard - Disconnect from supply before opening battery cover

100-130V~

200-250V~

380-415V~

Suitable for use on 110V, 230V & 400V mains supplies. Note this includes 400V a.c. mains phase to phase supplies as the phase finder measures phase to earth voltage which is a nominal 230V a.c. on a 400V a.c mains supply.

Specification

Voltage 50-300V a.c to Earth. Frequency 50-60Hz. Current <math><5\mu\text{A}</math>. Installation category III. Pollution degree 2. Suitable for use only in a dry environment. Temperature range 5-40°C.

Maintenance

Apart from the battery replacement this unit is maintenance free and contains no user serviceable components. Clean by wiping with a damp cloth with a light soap (non-detergent). Do not allow ingress of water. Ensure unit is thoroughly dry before use.

Warnings

Before each use check the unit for damage and conduct the pre-use check. If the unit is damaged in any way or is suspected of not working correctly it should be withdrawn from service and replaced or returned to Kew Technik.

If used in a manner not specified by Kew Technik the protection provided by the equipment may be impaired.

Optional Carry Case

A handy nylon carry case with belt loop is available from your nearest Kew Technik distributor (supplied free with the EPF 30 Professional).



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