

State displayed		Indicator					Audio Indication
		OK	ER	L1	L2	L3	
1	position rotation	●	○	■	■	■	Lasting buzz
2	negative rotation	○	●	■	■	■	consecutive buzz
3	L1 open circuit or not connected	○	●	□	■	■	consecutive buzz
4	L2 open circuit or not connected	○	●	■	□	■	consecutive buzz
5	L3 open circuit or not connected	○	●	■	■	□	consecutive buzz
6	All L1/L2/L3 or either 2 are open or not connected	○	●	□	□	□	consecutive buzz
7	Low battery power	●	●	/	/	/	consecutive buzz

#### 5. Notices:

- 1). Please make sure to replace the battery immediately once the YF-80 indicates the low battery power state, thus to maintain normal testing function.
- 2). Do not test any 3-phase voltage above AC 750V-rms, otherwise, the YF-80 will be damaged.

#### 6. Description of symbols:

-  : Equipment protected throughout by DOUBLE INSULATION OR REINFORCED INSULATION.
-  : Caution, risk of electric shock.

#### 7. Name and Address of Manufacture:

YU FONG ELECTRIC CO., LTD.

2nd Fl., No. 376, Tun Hwa South Rd.,

Sec. 1, Taipei, Taiwan, R.O.C.

# PHASE SEQUENCE INDICATOR

## MODEL YF-80


# OPERATING MANUAL

1. Before operating YF-80, Please read carefully these operating instructions for the proper application and the optimal performance of YF-80.

## 2. Functions & Features

- 1). Electronic circuit configuration allows more specific function display.
- 2). YF-80 can detect the phase sequence(R-S-T) of 3-phase AC circuit.
- 3). phase-rotation indication: by both audio and indicator.
- 4). Phase open-circuit detection: by indicator.
- 5). Automated detection for low-battery capacity: YF-80 will pick up automatically the insufficient battery power and displayed by the indicator. Insufficient battery power will lead to error in testing.

## 3. Specifications

- Testing range : 1). testing frequency: 45-65Hz.  
2). testing voltage : 50-500V (overload protection: 750V)
- Operating temp./RH: 0-40°C/80% RH below.
- Storage temp./RH: -10 to 60°C/70% RH below.
- Insulation Voltage Withstand protection: DC 6KV.
- Dimension & Weight: approximately 206g.(including battery)
- Power supply: 9V NEDA 1604 IEC 6F22 JIS 006P.
- Rated environmental conditions:  
Indoor use.  
Altitude up to 2000m.  
Ambient temperature 5°C to 40°C.  
Relative humidity 80%.  
Installation categories III.  
Pollution degree 2.  
Double and Reinforce Insulation  .

## 4. Operating Method & Instructions

Follow the R-S-T squence as marked respectively on three testing wires to connect to the 3-phase AC circuit. Press[PUSH ON], the indicator will be on.

- 1). If L1,L2,L3 and OK indicators are on at the same time, it indicates the phase sequence on the 3-phase AC circuit to be tested is identical to R-S-T sequence as marked respectively the corresponding testing wire. The rotation is positive.
- 2). If L1,L2,L3 and ER indicators are on at the same time, it indicates the phase sequence on the 3-phase AC circuit to be tested is diferent form the R-S-T sequence as marked respectively on the corresponding testing wire. The rotation is negative. At this time, simply fix any one phase and exchange the other two phases to make the rotation be positive rotation.
- 3). If L2,L3 and ER are on simultaneously, it indicates L1 testing wire is in open circuit state, or it has not been connected to the circuit to be tested.
- 4). If L1,L3 and ER are on simultaneously, it indicates L2 testing wire is in open circuit state, or it has not been connected to the circuit to be tested.
- 5). If L1,L2 and ER are on at the same time, it indicates L3 testing wire is in its open circuit state or it has not been connected to the circuit to be tested.
- 6). When there is only ER is on, it indicates that either all three testing wires L1,L2 and L3 or either pair among them are in their open circuit state, or are not connected to the circuit to be tested.
- 7). If OK and ER are on simultaneously either during the testing or not, It tells the insufficient power in the battery. Replace it before carrying on the testing.