

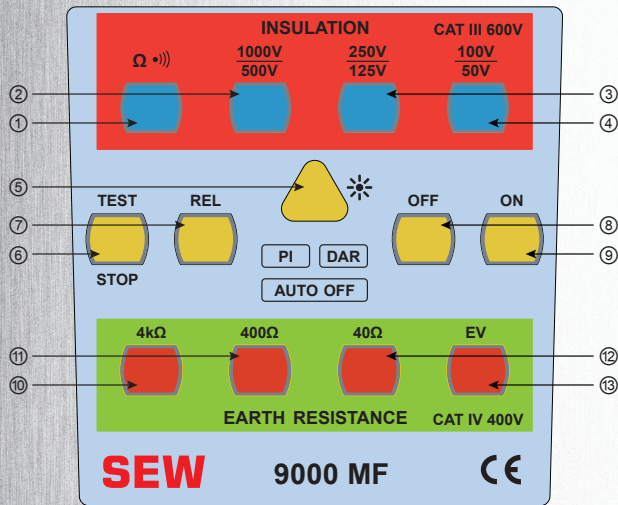
# MULTI-FUNCTION TESTER (INSULATION & EARTH RESISTANCE)



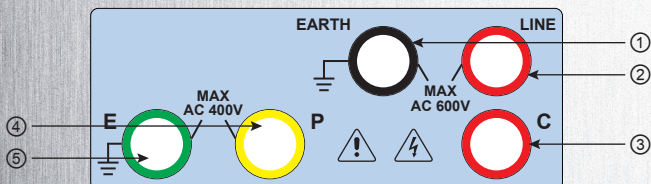
- 9000 MF multi-function tester is a combination of insulation tester and earth resistance tester
- Insulation output voltage : 50V, 100V, 125V, 250V, 500V, 1000V
- 1mA test current on insulation test at nominal voltage
- Auto-detection AC/DC voltmeter
- Continuity short-circuit current > 200mA
- Continuity open circuit voltage > 4.1V
- PI and DAR indication
- Maximum insulation range 8GΩ ( 8000MΩ ) at 1000V
- Auto ranging on all insulation ranges
- Continuity range : 2000Ω and 200.0Ω (auto ranging )
- Auto power off
- Test frequency of earth resistance measurement : 128 Hz
- Earth resistance measurement for 3 ranges : 40Ω / 400Ω / 4kΩ
- Earth resistance resolution : 0.01Ω / 0.1Ω / 1Ω
- Earth voltage measurement : 400V
- Auto-null ( Relative mode ) function
- Backlight function
- Low battery indication



## INSTRUMENT LAYOUT



- ① Continuity ( $\Omega$ , •)) button
- ② 1000V/500V button
- ③ 250V/125V button
- ④ 100V/50V button
- ⑤ BACKLIT button
- ⑥ TEST/STOP button
- ⑦ REL button
- ⑧ Power OFF button
- ⑨ Power ON button
- ⑩ 4k $\Omega$  button
- ⑪ 400 $\Omega$  button
- ⑫ 40 $\Omega$  button
- ⑬ EV (Earth Voltage) button



- ① Earth terminal for insulation test
- ② LINE terminal for insulation test
- ③ C terminal for earth resistance test
- ④ P terminal for earth resistance test
- ⑤ E terminal for earth resistance test



## SPECIFICATIONS

### Earth resistance

|                  |   |
|------------------|---|
| Measuring ranges | <ul style="list-style-type: none"> <li>• Earth resistance:<br/>0~40<math>\Omega</math> / 0~400<math>\Omega</math> / 0~4k<math>\Omega</math></li> <li>• Earth voltage:<br/>AC 0~400V (10~999Hz)<br/>DC 0~400V</li> </ul> |
| Accuracy         | $\pm (2.0\% + 3\text{dgt})$   |

### Insulation

| Test range (DCV)               | $\Omega$                             | 1000V/500V   | 250V/125V                | 100V/50V          |
|--------------------------------|--------------------------------------|--|--------------------------|-------------------|
| Measuring ranges               | 2k $\Omega$                          | 8G $\Omega$ /4G $\Omega$   | 2G $\Omega$ /1G $\Omega$ | 800/400M $\Omega$ |
| Accuracy                       | $\pm (2.0\% + 3\text{dgt})$          | 0-4G $\Omega$ : $\pm (3.0\% + 3\text{dgt})$<br>4-8G $\Omega$ : $\pm (5.0\% + 3\text{dgt})$ |                          |                   |
| Output voltage on open circuit | Rated test voltage +15%              |  |                          |                   |
| Short circuit terminal current | > 200mAdc                            | > 1mAdc  |                          |                   |
| AC voltage ranges              | 30~600V $\pm (2.0\% + 3\text{dgt})$  |  |                          |                   |
| Frequency ranges               | 10~999Hz $\pm (2.0\% + 3\text{dgt})$ |  |                          |                   |
| DC voltage ranges              | 30~600V $\pm (2.0\% + 3\text{dgt})$  |  |                          |                   |

|                           |  |
|---------------------------|--|
| Protection fuse           | 500mA / 600V , 5x20mm x 2  |
| Dimensions                | 322(L) x 260(W) x 135(D)mm   |
| Weight (battery included) | Approx. 3300g  |
| Power source              | 1.5V "C" battery x 8   |
| Safety standard           | EN 61010-1 EN 61326-1<br>EN 61557-1 EN 61557-2<br>EN 61557-5<br>For insulation tester:<br>CAT III 600V<br>For earth resistance tester:<br>CAT IV 400V  |
| Accessories               | Instruction manual<br>Test leads for earth resistance:<br>Red-15m, yellow-10m, green-5m,<br>Test leads for insulation:<br>red-90cm, black-90cm<br>Simplified measurement probe<br>Auxiliary earth spikes<br>Shoulder belt<br>Soft pouch<br>Batteries |