



4680, 4680B

Features

- Non Contact Ground Resistance Measurement
- No Auxiliary Electrodes Needed
- Recording / 116 Sets of Memory
- Ground Resistance Measurement 0.025Ω ~ 1500Ω
- Suitable for Ground Wire upto Φ 23mm (Model 4680)
- Suitable for Ground Wire upto Φ 34.5mm (Model 4680B)
- Leakage Current (0.300mA ~ 30.00A) (Model 4680)
- Leakage Current (0.300mA ~ 35.00A) (Model 4680B)
- Programmable High & Low Alarm
- Programmable Data Logging
- Auto Range
- Continuity Loop Test
- Auto Power Off (4~6 mins.)

General Specifications

- Jaw Opening** : 23 mm approx. (Model 4680)
38 mm approx. (Model 4680B)
- Power** : 9V Battery
- Display** : 4 Digit 9999 Counts LCD
- Range Selection** : Auto
- Overload Indication** : OL
- Power Consumption** : 40mA (approx.)
- Low Battery Indication** :
- Operating Environment** : 0° ~ 50 °C, RH < 85%
- Storage Environment** : -20°C ~ 60 °C, RH < 75%
- Dimensions** : 257 x 100 x 47 mm (Model 4680)
276 x 102 x 51 mm (Model 4680B)
- Weight** : 670 gms Including Battery (approx.) (4680)/
790 gms Including Battery (approx.) (4680B)
- Accessories** : Resistance Verification Plate x 1,
Battery (installed) x 1, User Manual x 1,
Carry Box x 1, Cleaning Brush x 1

Electrical Specifications (23°C ± 5°C)

Ground Resistance (Auto Range)		
Range	Resolution	Accuracy of Reading ^{1,2}
0.025 ~ 0.250 Ω	0.002 Ω	± 1.5%rdg ± 0.05Ω
0.251 ~ 1.000 Ω	0.02 Ω	± 1.5%rdg ± 0.05Ω
1.001 ~ 10.00 Ω	0.02 Ω	± 1.5%rdg ± 0.1Ω
10.01 ~ 50.00 Ω	0.04 Ω	± 2.0%rdg ± 0.3Ω
50.01 ~ 100.0 Ω	0.04 Ω	± 2.0%rdg ± 0.5Ω
100.1 ~ 200.0 Ω	0.4 Ω	± 3.0%rdg ± 1.0Ω
200.1 ~ 400.0 Ω	2 Ω	± 5.0%rdg ± 5Ω
400.1 ~ 600.0 Ω	5 Ω	± 10%rdg ± 10Ω
600.1 ~ 1500 Ω	20 Ω	± 20%rdg

1. Loop resistance noninductive, external field <50A/m (4680) or <200A/m (4680B), external electrical field <1V/m, conductor centered.
2. Resistance Measurement Frequency : 3.333KHz

Ground & Leakage Current : Auto Ranging, 50/60Hz, TRMS, Crest Factor <3.0 for (4680) or <3.5 for (4680B)		
Range	Resolution	Accuracy of Reading
0.300 ~ 1.000 mA	0.001 mA	± 2.0%rdg ± 0.05mA
1.00 ~ 10.00 mA	0.01 mA	± 2.0%rdg ± 0.03mA
10.0 ~ 100.0 mA	0.1 mA	± 2.0%rdg ± 0.3mA
100 ~ 1000 mA	1 mA	± 2.0%rdg ± 3mA
0.200 ~ 4.000A	0.001A	± 2.0%rdg ± 0.03A
4.00 ~ 30.00A (4680)	0.01A	± 3.0%rdg ± 0.03A
4.00 ~ 35.00A (4680B)	0.01A	± 3.0%rdg ± 0.03A

Accuracy of Resistance Calibration Plate : ±1%
Data Logging Capacity : 116 Records
Data Logging Interval : 1 ~ 255 Seconds