



Model 4235 ER

4-Wire Earth Resistance / Earth Resistivity Testers

IP65

CE



Features

- **Protection class: IP65 (Lid closed)**
- **Microprocessor-controlled.**
- Earth resistivity (ρ) test.
- Earth testing at 20 Ω , 200 Ω , 2k Ω .
- Earth voltage measuring : 0-300V AC.
- Automatic C spike check.
- Automatic P spike check.
- 2-Wire test, 3-Wire test, 4-Wire test.
- LCM display.
- Auto ranging.
- Auto power OFF.
- Data hold.
- 200 measurement results can be saved in the memory and recalled on the display.
- Interval between auxiliary earth spikes is 1.0~50.0m.

Specifications

Measuring ranges

Earth resistance: 0-20 Ω / 0-200 Ω / 0-2k Ω

Earth voltage: 0-300 VAC

Earth Resistivity 0.06~6.28k Ω .m

($\rho = 2 \times \pi \times L \times R$): 0.62~62.8k Ω .m
6.28~628k Ω .m

Accuracy

Earth resistance: 0-20 Ω : $\pm(2\%rdg+0.1\Omega)$.

0-200 Ω , 0-2k Ω : $\pm(2\%rdg+3dgt)$

Earth voltage: $\pm(2\%rdg+3dgt)$

Earth resistance 0-20 Ω : 0.01 Ω

resolution: 0-200 Ω : 0.1 Ω

0-2k Ω : 1 Ω

Measuring system

Earth resistance by constant current
Inverter 820Hz approx. 2mA

Temperature
& humidity:

Operating: 0 $^{\circ}$ C~40 $^{\circ}$ C, $\leq 80\%$ R.H.
Storage: -10 $^{\circ}$ C~50 $^{\circ}$ C, $\leq 80\%$ R.H.

Dimensions:

250(L) x 190(W) x 110(D)mm.

Weight:

Approx. 1500g (battery included).

Power source:

1.5V (AA) $\times$ 8.

Safety standards:

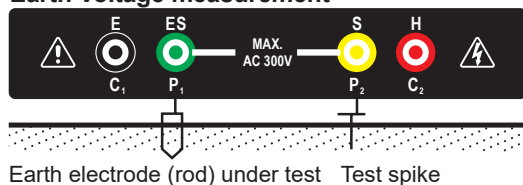
IEC/EN 61010-1 CAT IV 300V.

EN 61326-1. EN 61557-1. EN 61557-5.

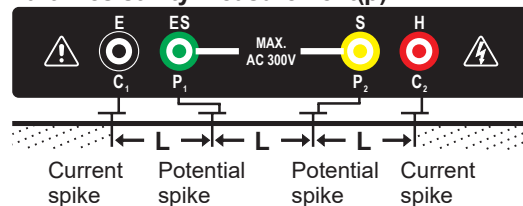
Accessories:

Instruction manual.
Test leads (red-15m, yellow-10m, green-5m).
Auxiliary earth spikes.
Carry case. Shoulder belt. Batteries .

Earth Voltage measurement



Earth resistivity measurement(ρ)



Four-terminal earth resistance

