

# 4-Wire Earth Resistance / Earth Resistivity Tester



**4235 ER**



**4236 ER**

**FEATURES**

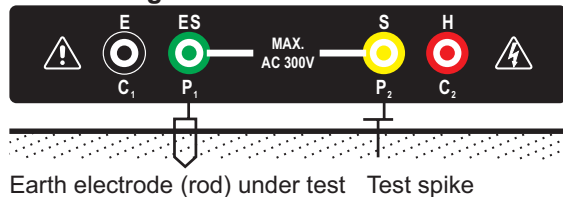
- Microprocessor-controlled
- Earth resistivity ( $\rho$ ) test
- Earth testing at 20 $\Omega$ , 200 $\Omega$ , 2k $\Omega$
- Earth voltage measuring: 0-300V AC
- Automatic C spike check
- Automatic P spike check
- 2-Wire test, 3-Wire test, 4-Wire test
- LCD display

- Auto ranging
- Auto power OFF
- Data hold
- 200 measurement results can be saved in the memory and can be recalled on the display
- Interval between auxiliary earth spikes is 1.0~50.0m
- Optical USB to RS-232 data transmission (4236 ER)
- Stored data can be transferred to a PC (4236 ER)
- 2 built-in optical LEDs for data transfer (4236 ER)

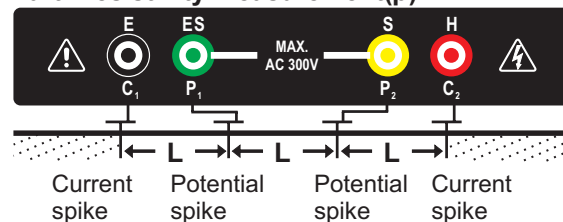
**SPECIFICATIONS**

Measuring ranges	Earth Resistance 0-20 $\Omega$ / 0-200 $\Omega$ / 0-2k $\Omega$ Earth Voltage 0-300.0V AC Earth Resistivity ( $\rho=2 \times \pi \times L \times R$ ) 0.06~6.28k $\Omega$ .m 0.62~62.8k $\Omega$ .m 6.28~628k $\Omega$ .m
Accuracy	Earth Resistance: 0-20 $\Omega$ : $\pm(2\%rdg+0.1\Omega)$ 0-200 $\Omega$ , 0-2k $\Omega$ : $\pm(2\%rdg+3dgt)$ Earth Voltage: $\pm(2\%rdg+3dgt)$
Earth resistance resolution	0-20 $\Omega$ : 0.01 $\Omega$ 0-200 $\Omega$ : 0.1 $\Omega$ 0-2k $\Omega$ : 1 $\Omega$
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 (battery included)	Approx. 1500g
Power source	1.5V (AA) x 8
Safety standards	EN 61010-1 CAT IV 300V IEC 61557-1 IEC 61557-5 EN 61326-1
Accessories	Instruction manual Test leads (red-15m, black-10m, yellow-10m, green-5m) Auxiliary earth spikes Carry case, Shoulder belt, Batteries Data Transmission cable CA-232(4236ER) Compact disc(CD) for PC interface(4236ER)

**Earth Voltage measurement**



**Earth resistivity measurement( $\rho$ )**



**Four-terminal earth resistance**

