IRIS INSTRUMENTS

SYSCAL Kid

RESISTIVITY, SP & IP METER / LOGGER FOR ARCHAEOLOGY AND ENGINEERING

- **Automatic ranging**
- **Direct resistivity reading**
- **Built in data logger**
- **Field proof**

IRIS Instruments is pleased to introduce its new resistivity meter/logger, SYSCAL Kid, a very compact unit specially designed for shallow electrical surveys. The SYSCAL Kid offers the well-known reliability and measurement accuracy of the entire SYSCAL range of resistivity meters.

Easy-to-use, field proof and light weight, SYSCAL Kid is ideal for archaeological, geological mapping, civil engineering and well logging applications.

APPLICATIONS

- Shallow ground resistivity
- Archaeology surveys
- Civil engineering
- Geological mapping
- Well logging

MAJOR BENEFITS

Attractive output parameters:
- 200 V maximum voltage,
- 25 W maximum power,
- 500 mA maximum current

- Automatic fixing of the output voltage in relation with the level of the measured signal.
- Internal memory for more than 1400 full stations
- Accuracy on resistivity: 1%.
- Quality control of the measurement through standard deviation and number of stacks.
- Display of measured voltage, intensity of current, apparent resistivity, induced polarization and self-potential.
- Serial link for transfer to PC.

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SYSCAL Kid

GENERAL SPECIFICATIONS

- LCD display: 4 lines of 20 characters
- Keypad: 6 functions keys
- Operating temperature range: -10 to +50 °C
- Internal rechargeable battery: 12 V, 6.5 Ah
- Autonomy: 3000 readings typical.
- Internal memory of 1400 stations with full readings: self-potential, voltage, current, resistivity
- Dimensions: 23 x 18 x 17 cm
- Weight: 4.1 kg

TRANSMITTER

- Automatic current setting
- Output voltage: up to 200 V
- Output current: up to 500 mA
- Output power: up to 25 W
- Optional external 12V battery input
- Cycle time: 1 or 2 s

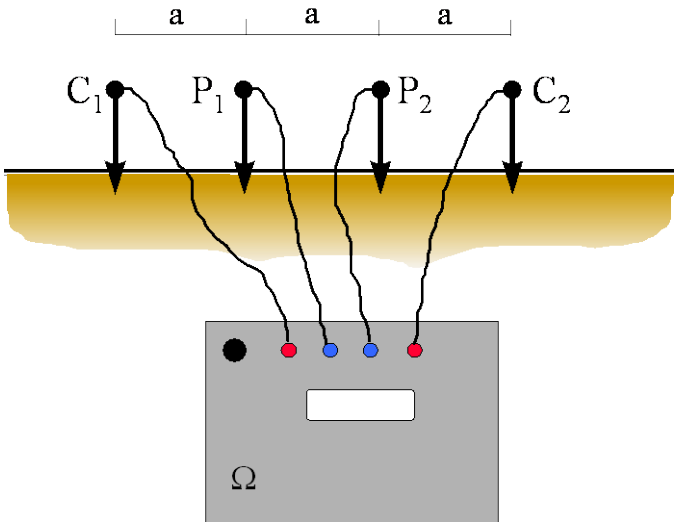
RECEIVER

- Resistivity computation
- Automatic ranging
- SP compensation including linear drift
- Digital stacking for noise reduction
- Input voltage: protection up to 200 V
  range from - 2.5 V to +2.5 V
- Input impedance: 22 MΩ
- Resistivity range: 10^{-3} to 10^{+5} Ω.m
- Resistivity precision: 0.2 % typical

RESISTIVITY MEASUREMENTS

Ground resistivity (Wenner)

$$\rho_a = 2\pi\, a \frac{\Delta V_{P1-P2}}{I_{C1-C2}}$$



Available arrays:

- Schlumberger
- Wenner
- Gradient
- Dipole-Dipole
- Pole-Dipole
- Pole-Pole
- Other (user defined)

Specifications subject to change without notice BR_SYS_K_GB_V2

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