

small electrical logging tool

Well Pack10

Specifications/Instructions



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1. Overview

This machine is a compact and lightweight electrical logging and resistivity measuring instrument for well drilling sites.

2. Specification

2.1 Measurement method

Method : constant current pulse drive type, four-terminal measurement
Measured value display : Max. 1999 display
Measurement range switching : automatic
Measurement waveform : square wave constant current control Max 15Vp-p
Measurement frequency : 10Hz

2.2 Output current, voltage and resistance measurement range

This unit automatically determines the output current and input voltage range according to the conditions of the object to be measured, and measures the resistance value.

Relationship between resistance measurement range and device output current and input voltage range

output current / input voltage range	0.2mA	1mA	5mA	25mA
0.1V	~500Ω	~100.0Ω	~20.0Ω	~4.00Ω
1V	~5.00KΩ	~1000Ω	~200Ω	~40.0Ω
10V	~50.0KΩ	~10KΩ	~2.00KΩ	~320Ω

2.3 Power supply

Power supply voltage: DC 6V (4 AA-batteries)

Current consumption:

about 180mA (measured current 25mA, battery voltage 6V)

about 110mA (measured current 0.2mA, battery voltage 6V)

Continuous use time: 6 hours to 10 hours using alkaline batteries

2.4 Others

Operating temperature and humidity: 0-50°C, 80RH% or less (no condensation)

Body dimensions: 160 (W) x 80 (D) x 55 (H) (dimensions not including protrusions)

3. Equipment description

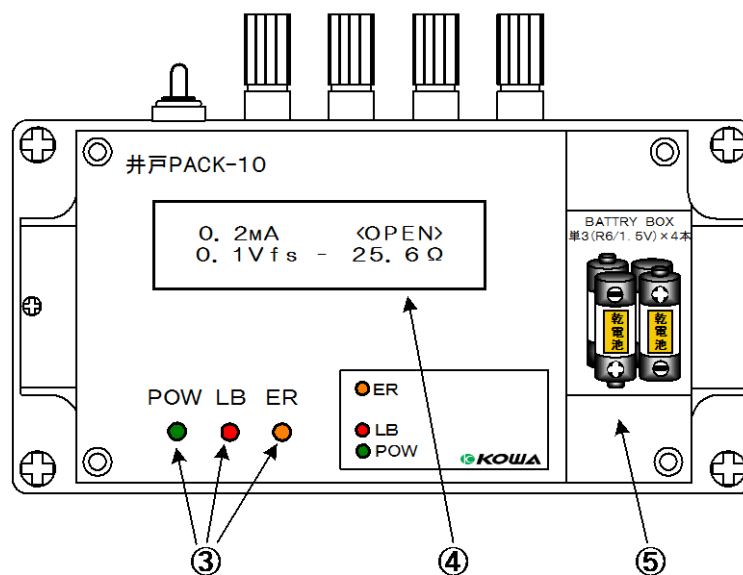
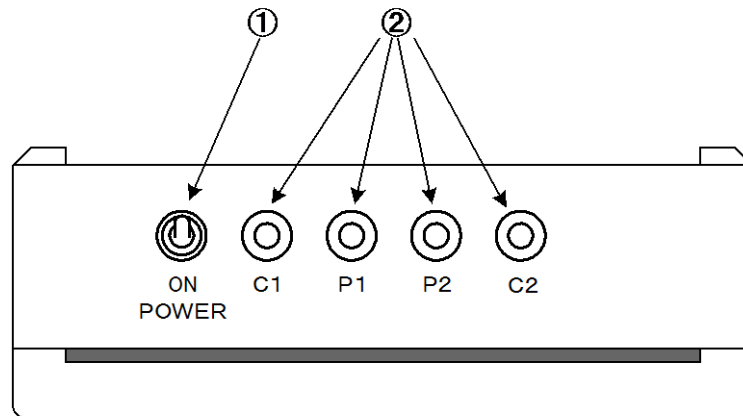
① Power switch

Pushing it to the ON side turns on the power of this unit.

② Terminal for measurement

C1, C2: Constant current drive output terminals.

P1, P2: Voltage measurement terminals.



③ Operation indicator lamp

Displays the operating status of the machine.

POW: The power indicator lamp lights up when the unit is in operation.

LB : Low battery voltage warning lamp.

Flashes when the battery voltage drops during operation. Please replace the battery.

ER : This is an error display lamp.

If the measurement target exceeds the measurement range of this unit or due to incorrect wiring, etc., normal measurement may not be possible. Flashes if it is not possible.

④ LCD liquid crystal display

Displays the current output current, input voltage range and resistance measurement.

In the case of a measurement error, the contents of the error are also displayed.

⑤ Battery compartment

The battery is housed in this part.

When replacing the battery, use a screwdriver to loosen the screws at the four corners of the main unit, and the upper transparent cover will come off. There is a battery holder inside, so pull it out and replace the battery.

4. How to connect the electrode selector switch

As shown in the figure below, connect the wires of electrode A (short) and electrode B (long) of the electrical logging cable to the terminals.

