DS4-II

Cable Identifier

- The device reliably identifies the unique test cable from multiple cables, ensuring personnel safety.
- Capable of identifying both energized power cables and de-energized powercables.
- Uses a large-diameter flexible coil receiving sensor, suitable for various complex cable laying sites.

Transmitter Specifications

	Transmits composite pulse frequency-current signals, displays the remaining battery voltage, and provides dynamic indication of transmission status
Power	11.1V high-capacity rechargeable lithium battery, enabling approximately 8 hours of continuous operation when fully charged
Display Mode	Extra-large LCD displays real-time remaining battery voltage
Transmission Frequency	625 Hz, 1562 Hz, 2500 Hz, 10 kHz (for energized identification). Adjust the transmission frequency by pressing the up/down arrow keys
Pulse Voltage	500V (for de-energized identification)
Pulse Current	Maximum 30A (depending on the magnitude of loop resistance)
Pulse Frequency	1 time/second
Pulse width	2ms
Transmitter clamp inner diameter	ϕ120mm
Test Lead Length	3 meters, with alligator clips, 1 red and 1 black
Transmitter clamp lead length	2m
Grounding pin dimensions	Length × Width × Thickness: 225mm × 100mm × 10mm
Transmitter Dimensions	320mm × 275mm × 145mm
Transmitter Clamp Dimensions	Length × Width × Height: 300mm × 175mm × 50mm
LCD Dimensions	128mm×75mm
LCD Display Area	124mm×67mm
Outer packaging dimensions	Length × Width × Height: 400mm × 245mm × 335mm
Backlight Control	Yes, white backlight
Operating Temperature	-10°C to 40°C
Storage Conditions	-20°C to 50°C, ≤95% RH, no condensation
Instrument Weight	Transmitter: 2.5 kg
	Transmitter clamp: 1.08 kg
	Total Weight: 4.4 kg (including receiver)
Battery Level	When battery voltage drops below 9.65V, the low battery indicator illuminates to prompt recharging; below 9.5V, the device automatically shuts down
Charger	12.6V DC charger
Charging Interface	Round charging port with DC marking
-resistant	Transmitter features an integrated toolbox-style design capable of withstanding approximately 200kg of pressure
-Resistant	AC 3700V/rms (between top and bottom surfaces of the instrument case)
Electromagnetic characteristics	IEC 61326 (EMC)
Reference Safety Standards	IEC 61010-1 (CAT III 300V, CAT IV 150V, Pollution Degree 2)

Receiver Specifications

	Cable identification (identifies and decodes pulse current signals); AC Voltage, Current, and Frequency Measurement
Power	7.4V high-capacity rechargeable lithium battery with a USB charging port, enabling approximately 6 hours of continuous operation when fully charged
Rated Current	Approx. 300mA max
Display Mode	3.5-inch true color LCD display with color icon indicators
Signal Calibration	Yes, percentage of received signal to transmitted signal; reaching 60% or above of the calibration value is one of the conditions for successful identification
Direction Recognition	Yes. Transmitter clamp, receiver clamp, and applied signal must be oriented in the same direction, which is one of the conditions for successful identification
Cable identification successful	Indicated by a green checkmark icon (√)
Non-Target Cable	Red-orange cross icon (×)
Receiver Dimensions	Length × Width × Height: 207mm × 101mm × 45mm
Flexible Coil	Approx. 630mm long, wire diameter 6mm or 12.5mm
Coil Inner Diameter	ϕ200mm
Lead wire length	Flexible coil lead length: 2m
Voltage test leads	1m long (1 red, 1 black)
Detection Range	De-energized Identification: The coil can detect pulse signals with a loop resistance ranging from 0 Ω to 10 kΩ. When detecting a loop resistance of 10 kΩ, the transmitter battery voltage must be above 11 V.
	Energized Identification: The coil can detect pulse signals with a loop resistance ranging from 0 Ω to 100 Ω. When detecting a loop resistance of 100 Ω, the transmitter battery voltage must be above 11 V
	AC Voltage: 0.01V to 600V (50Hz/60Hz)
	AC Current: 0.01A to 5000A (50Hz/60Hz)
	Current Frequency: 45Hz to 70Hz
Accuracy	AC Voltage: ±2% ±1 digit
	AC Current: ±2% ±1 digit
	Current frequency: ±2% ±1 digit
Signal Recognition	Color bar and numeric display indicate signal strength
Detection rate	Approximately 1 time per second
Gain Adjustment	In test interface, press left/right arrow keys to adjust signal amplification
Backlight control	In the menu interface, press the up/down arrow keys to adjust the LCD backlight brightness
Auto Power Off	The meter will automatically power off approximately 30 minutes after startup to conserve battery power
Battery Voltage	When battery voltage drops below 6.5V, the low battery symbol appears, indicating it's time to recharge the battery.
Charger	9V DC Charger
Charging port	USB charging port
Operating Temperature	-10°C to 40°C; below 80% RH

and Humidity	
Storage Temperature and Humidity	-10°C to 50°C, ≤95% RH, no condensation
Receiver Weight	Receiver: 370g (with battery)
	Flexible Current Clamp: 172g
Insulation Resistance	Between the instrument circuit and the sheath housing ≥ 100 MΩ
Compliant with Safety Standards	IEC61010-1 CAT III 600V, IEC61010-031, IEC61326, Pollution Degree 2

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