

S180D+ Cable Identifier

FEATURES



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| Up to 15 cables can be calibrated and identified |
| Direct connection and signal coupling method available |
| Energised & de-energized (dead) cable |
| Live cable frequency: 625Hz, 1562Hz, 2500Hz, 10000H |
| Dead cable frequency: 1562Hz, 2500Hz |



SPECIFICATIONS Rx

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| Function | Live cable identification; dead cable identification; AC voltage, current, frequency measurement |
| Battery | 7.4V large-capacity rechargeable lithium battery; USB charging interface; when fully charged, it can work for about 6 hours |
| Receiving Frequency | Press Left and Right Arrow Button to select receiving frequency: 625Hz, 1562Hz, 2500Hz or 10000Hz |
| Gain Intensity | Press Left and Right Arrow Button to select gain intensity: 1dB, 10dB or 20dB |
| Rated Current | 300mA max |
| Display Mode | 3.5-inch TFT LCD screen display, color icon indication |
| Signal Calibration | Calibrating one to fifteen cables |
| | Calibrating the transmit signal: When the current percentage of the receiving signal and the transmitting signal is between 75% and 135% of the calibration value, the cable is successfully recognized. |
| | Calibrating multiple cables at one time; After being calibrated, the test frequency and gains cannot be changed, otherwise it needs to be re-calibrated. |
| Direction Recognition | When the transmitting clamp, receiving clamp and loading signal is in the same direction, the direction can be successfully recognized. |
| Identification Result | Green tick icon indicating successful cable identification(✓) |
| Non-target Cable | Red-orange cross icon indicating non-target cable(×) |
| Size of Receiver | L207mm×W101mm×H45mm |
| Flexible Clamp | L: about 620mm, Diameter of Lead: 8mm |
| Inner Diameter of Coil | φ200mm, can be customized |
| Length of Lead | Flexible Clamp: Appro 3m |
| Size of | L111mm × W60mm × H27mm Detector is optional. |
| Length of Lead | Detector: Appro 3m |
| Voltage Lead | L: 1m , red and black lead, one per color |

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| Detection Range | Dead Cable Identification: The coil can detect the pulse signal with loop resistance ranging from 0Ω to 8kΩ. When the resistance reaches 8kΩ, it is necessary to ensure that the battery power of the transmitter is more than 11V. Depending on the grounding resistance and cable resistance, it can identify cables of max length 20 kilometers. |
| | Live Cable Identification The coil can detect the pulse signal with loop resistance ranging from 0Ω to 200Ω. When the resistance reaches 200Ω, it is necessary to ensure that the battery power of the transmitter is more than 11V. Depending on the grounding resistance and cable resistance, it can identify cables of max length 6 kilometers. |
| Ranging | AC Voltage: 0.00V to 600V(50Hz/60Hz) |
| | AC Current: 0.00A to 5000A(50Hz/60Hz) |
| | Frequency: 45Hz to 70Hz |
| Accuracy | AC Voltage: $\pm 2\% \pm 3 \text{dgt}$ |
| | AC Current: $\pm 2\% \pm 3 \text{dgt}$ |
| | Frequency: $\pm 2 \text{Hz}$ |
| Identification Signal | Digital |
| Detection Rate | Approx one per second |
| Gain Adjustment | In the test interface, press the Left and Right Arrow Button to adjust the signal magnification, so that the received signal is effective and the gain adjustment is displayed stably. |
| Backlight Control | In the selection interface after power on, press the Up and Down Arrow Button to adjust the brightness of the LCD backlight |
| Automatic Shut-down | After operating for about 1 hour, the device will automatically shut down to reduce battery consumption |
| Battery Voltage | When the battery voltage is lower than 6.5V, the low battery voltage icon will display, reminding to charge the battery |
| Charger | 8.4V 1A |
| Charging Interface | USB |
| Working Temperature and Humidity | -10°C to 40°C; below 80%Rh |
| Storage Temperature and Humidity | -10°C to 50°C, $\leq 95\% \text{ RH}$, no condensation |
| Weight of Receiver | Flexible Clamp: 172g; Receiver: 370g(including battery) |
| Dielectric Strength | AC2000V/rms |
| Safety Regulation | IEC61010-1 CAT III 600V, IEC61010-031, IEC61326, Pollution Level2 |
| SPECIFICATIONS Tx | |
| Function | Transmitting frequency current signal; Indicating voltage and transmission status |
| Battery | Equipped with 11.1V large-capacity rechargeable lithium battery, when fully charged, it can work about 8 hours |
| Output Method | For the live cables, clamp coupling method is used. For dead cables, direct connection is preferred. |

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| Transmit Frequency | Frequency of energized cable identifier: 625Hz, 1562Hz, 2500Hz or 10000Hz Frequency of De-energized cable identifier: 1562Hz or 2500Hz. Press the Up and Down arrow to select frequency. |
| Length of Test Lead | 3m red and green test lead, one per color; crocodile clip; |
| Size of Transmitting Clamp | L250mm × W140mm × H35mm |
| Inner Diameter of Transmitting Clamp | φ105mm |
| Lead Length of Transmitting Clamp | 3m |
| Size of Earth Probe | L225mm × W100mm × H10mm |
| Size of Transmitter | 320mm × 275mm × 145mm |
| Display Mode | Large LCD with backlight, displaying the remaining battery voltage in real time |
| Size of LCD | L128mm × W75mm; Display Area: 124mm × 67mm |
| Size of Outer Package | L400mm × W245mm × H335mm |
| Operating Temperature | -10°C to 40°C |
| Storage Condition | -20°C to 50°C, ≤95%RH, no condensation |
| Backlight | White backlight |
| Operation Temperature | -10°C to 40°C |
| Storage Condition | -20°C to 50°C, ≤95%RH, no condensation |
| Weight | Transmitter: 2.5kg; Transmitting Clamp: 1.12kg; Total: 4.44kg (including receiver) |
| Battery Level | When the battery voltage is lower than 9.65V, it shows the low battery voltage icon, reminding to charge the battery; when it is lower than 9.5V, the device will automatically shut down |
| Charger | 12.6V 1A DC |
| Charging Interface | Round shape, DC |
| Anti-pressure | Integrated special tool box design, bearing a pressure of about 200kg |
| Dielectric Strength | AC 3700V/rms |
| Electromagnetic Properties | IEC61326(EMC) |
| Safety Regulation | IEC61010-1(CAT III 300V、CAT IV 150V、Pollution Level 2) |



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