

HPD5000B

Partial Discharge Detector



Focusing on designing and manufacturing portable HV test equipment.

PD detector, HV Switchgear analyzer, CT/PT analyzer, Micro-ohmmeter, Capacitance & Dissipation factor tester.

HANDY

Electrical Instruments Professional Manufacturer

Partial Discharge Detector

HPD5000B



HPD5000B integrates multiple partial discharge detection functions and can use ultra-high frequency (UHF), high-frequency current (HFCT), transient earth voltage (TEV), and acoustic emission (AE) sensors for partial discharge detection of high-voltage equipment. It is suitable for live inspection of GIS, switchgear, cables, transformers, and other equipment.

Features

- Use an Ultra High Frequency (UHF) sensor to detect partial discharge.
- Use a High Frequency Current Transformer (HFCT) to detect partial discharge.
- Use an Acoustic Emission (AE) sensor to detect partial discharge.
- Use an External surface sticker ultrasonic to detect partial discharge.
- Use a Transient Earth Voltage (TEV) sensor to detect partial discharge.
- Refresh PRPS and PRPD patterns in real time.
- High frequency current anti-interference selective frequency filter with multiple combinations.
- Equipped with ultra-high frequency selective frequency filter. With a combination of high-pass, low-pass, bandstop and all-pass.
- Can be operated on a 8-inch Windows tablet computer.
- Built-in large capacity battery, which can continuous test more than 6 hours.
- The wireless module adopts an aluminum alloy skeleton design to prevent collision.
- Adopting fully wireless sensor, no need to wire.

Specifications

UHF Measurements

| | |
|----------------------------|--|
| Bandwidth | 300 to 1500MHz |
| Selective Frequency Filter | High-pass, low-pass, band stop(900MHz), all-pass |
| Sensitivity | 1.57V/m |
| Dynamic Range | 70dB |



HFCT Measurements

| | |
|--------------------------|-------------------------------|
| Bandwidth | 3 to 30MHz |
| Anti-interference Filter | 10MHz, 17MHz, 24MHz |
| Dynamic Range | 80dB |
| Impedance | $\geq 10\Omega$ @(3 to 30MHz) |
| Linearity Error | $\leq \pm 5\%$ |

TEV Measurements

| | |
|----------------------|----------------|
| Coupling Bandwidth | 3 to 100MHz |
| Dynamic Range | 80dB |
| Coupling Capacitance | 50pF |
| Linearity Error | $\leq \pm 1\%$ |

AE Measurements

| | |
|------------------|-------------|
| Center Frequency | 40kHz |
| Sensitivity | -67dB@40kHz |

Ultrasonic Measurements

| | |
|------------------------------------|--------------|
| External Surface Sticker Bandwidth | 20 to 200kHz |
| Dynamic Range | 95dB |

Display

| | |
|--------------|------------|
| Screen | 8-inch |
| Brightness | 700Nit |
| Touch Screen | Capacitive |
| Resolution | 1200*800 |

Tablet Computer

| | |
|------------------------|-------------------|
| Dimensions | 227×142×22mm |
| Battery Capacity | Lithium Ion, 42Wh |
| Operating Time Approx. | 6 hours |
| Weight | 830g |
| IP Rating | IP 67 |

Wireless Module

| | |
|------------------------|----------------------|
| Dimensions | 104×70×35mm |
| Battery Capacity | Lithium Ion, 4000mAh |
| Operating Time Approx. | 6 hours |
| Weight | 250g |

Operating Environment

| | |
|-------------|-----------------------------|
| Temperature | -20℃ to 60℃ |
| Humidity | 5% to 90% RH non-condensing |



| NO. | Description | Quantity |
|-----|---------------------------------|----------|
| 1 | Windows Tablet Computer | 1 |
| 2 | UHF Wireless Module | 1 |
| 3 | UHF Sensor | 1 |
| 4 | HFCT Wireless Module | 1 |
| 5 | HFCT-60 | 1 |
| 6 | AE and TEV Wireless Module | 1 |
| 7 | External Surface Sticker Sensor | 1 |
| 8 | Speaker | 1 |
| 9 | Synchronization Transmitter | 1 |
| 10 | BNC Connection Cable | 3 |



SHIJIAZHUANG HANDY TECHNOLOGY CO.,LTD

Qilian Street, High-Tech zone, Shijiazhuang, Hebei, China

Web: www.handy-china.com

Tel: +86 311 68021322 E-mail: handy@handy-china.com

