The **PCD 126A** is used for surge coupling of 1,2/50us - 8/20us combination wave impulses onto unshielded asymmetrical data and signal lines according IEC/EN standards. It is also used for surge coupling ring wave impulses onto both unshielded asymmetrical and symmetrical data and control lines according to IEC/EN standards. Up to 6.6 kV peak value are possible. Up to 4 wires can be tested simultaneously.

To obtain maximum flexibility only coupling elements are included in the PCD 126A. Decoupling circuits, which depends on the EUT to be tested, can be placed separately in the test setup.

**Manual coupling path switching** for common mode (longitudinal, line to earth) and differential mode (transversal, line to line) testing.

**Default coupling elements** are capacitors, breakdown avalanche diodes and gas arrestors. The coupling elements can be selected easily. The direct coupling output allows the customer to use his own coupling elements.

The PCD 126A can be used together with the impulse modules PIM 100 and PIM 110 from the Surge Platform and the PSURGE 4010. These provide all the programming functions required to perform IEC, ANSI and EN testing also without the need of a control computer.

With a 100 year history of innovation, service centers on three continents and a full staff development and support engineers, Haefely is the clear choice for all your transient immunity test needs.

### Features
- Combination wave 1,2/50us - 8/20us impulses
- Serial resistor 40 Ohm included
- Ringwave 100kHz impulses
- Up to 4 wires can be tested
- Signal Bandwidth up to some MHz
- Manual coupling path selection

### Benefits

**International application** – Specifically designed to meet and exceed the requirements of:
- IEC / EN 61000-4-5 Edition 1 Figures 10 and 11 (combination wave)
- IEC / EN 61000-4-5 Edition 2 Figures 11, 12 and 13 (combination wave)
- IEC / EN 61000-4-12 Edition 1 Figures 9, 10, 13 and14 (ring wave)
- IEC / EN 61000-4-12 Edition 2 Figures 9, 10 and 11

**Safe and Easy** - All the sockets are safety banana plugs to ensure maximum safety to the user. The selected coupling path can be seen at a glimpse.

**Sturdy and Reliable** – Careful component selection ensures that the PCD 126A will continue to operate under the most strenuous testing regimen.

**Report Generation** - The unit controller can automatically generate test reports without a computer. Add WinFEAT&R control and reporting software on a host PC to collect and collate data in any format you like.

### Applications
- Unshielded asymmetrical data and signal lines
- Unshielded symmetrical data and signal lines (ring wave testing only)
- Industrial equipment
- Other international requirements for combination wave and ring wave impulses on asymmetrical data- and control lines
Technical Specifications

<table>
<thead>
<tr>
<th>Impulse shapes</th>
<th>Combination wave 1,2/50us - 8/20us</th>
<th>Z = 2 Ohm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ring wave 100kHz</td>
<td>Z = 12 Ohm, 30 Ohm and 200 Ohm</td>
<td></td>
</tr>
</tbody>
</table>

| Impulse amplitude | max. 6.6kV | for both impulse shapes |

| Serial Resistor | 1 x 40Ω | for testing according IEC 61000-4-5 |

| Coupling elements | Capacitor 0.5uF / 3uF | for asymmetrical lines, both impulse shapes |
|                   | Avalanche breakdown diode (ABD) | for asymmetrical lines, both impulse shapes |
|                   | Avalanche breakdown diodes (ABDs) | for symmetrical lines, ring wave only |
|                   | Gas arrestors | for symmetrical lines, ring wave only |
|                   | Direct | for customer specific coupling elements |

| Voltage on EUT lines | max. 375VDC or 265VAC,RMS | with capacitors as coupling elements |
|                      | max. 72VDC or 50VAC,RMS | with ABDs or gas arrestors as coupling elements |

| Signal bandwidth for the EUT signals | up to > 1kHz | with capacitors as coupling elements |
|                                       | up to > 1MHz | with ABDs as coupling elements |
|                                       | up to > 10MHz | with gas arrestors as coupling elements |

Other coupling elements on request.

Weight and Dimensions

<table>
<thead>
<tr>
<th>Weight</th>
<th>approx. 12 kg net</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>45 x 19.5 x 57 cm (w x h x d)</td>
</tr>
</tbody>
</table>

PCD 126A Art. No. 2498030 Scope of supply

| Qty. 1 | PCD 126A |
| Qty. 1 | HV cable Fischer - Fischer |
| Qty. 1 | Cable set |
| Qty. 1 | Short circuit bridge |
| Qty. 1 | Users Manual |

Options and Accessories

DEC 5 Decoupling unit for symmetrical lines according IEC 61000-4-5 and IEC 61000-4-12.

DEC 7 Decoupling unit for asymmetrical lines according IEC 61000-4-5 and IEC 61000-4-12.

PSURGE 8000 Mainframe of the Surge Platform

PIM 100 Combination Wave module up to 7.3kV

PIM 110 Ring wave module up to 7.8kV with Z=12 Ohm, 30 Ohm and 200 Ohm

ECOMPACT 4 Compact Tester up to 4.2kV

WinFEAT&R Control Window