The KAL 9510 has been designed to fulfil the standard requirements of a PD calibrator. Its wide range (from 1 pC to 50 nC), its small injection capacitor, carefully selected features and intuitive user interface makes the KAL 9510 unique.

The high voltage step generator included in the KAL 9510 allows the use of extremely low injection capacitors (1 pF up to 200 pC) as recommended in the current and proposed future standards.

Its fast response time (< 35 ns) and long holding time (> 5 µs) creates a complete flat response of the calibration pulse in the frequency domain long beyond the IEC recommended measuring band.

The PD calibrator is easily controlled from its touch screen and all options are selected by the user oriented menu.

**FEATURES**

- SCS (IEC 17025) calibration certificate (optional)
- Ultra wide range from 1 pC up to 50000 pC
- Selectable pulse polarity
- Touch screen
- Programmable frequency or light triggered
- Hand held, Rechargeable battery

**BENEFITS**

No need for different PD calibrators: The wide output range and pulse polarity selection allows a proper calibration at any test object.

Correct calibration independent of the test object capacitance: The low injection capacitors used eliminates the test object capacitance influence during calibration.

Guarantees the reliability of the partial discharge measuring chain due to the included traceable test certificate and the optional SCS (IEC 17025) calibration certificate.

**PERFORMANCE CHECK OF MEASURING CHAIN**

Haefely Hipotronics recently obtained accreditation to calibrate and certify PD calibrators from SCS, Switzerland (Swiss equivalent of DKD, Germany). A calibration certificate can be delivered optionally with the KAL9510.

[SCS accreditation for PD calibration certification]

DESIGNED BY: [INSTRUMENTS]

PREPARED BY: [SCHMIDT]

HIGH VOLTAGE TESTING SOLUTIONS
TECHNICAL SPECIFICATIONS

Signal generation

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attenuator Accuracy</td>
<td>1 %</td>
</tr>
<tr>
<td>Full discharge range</td>
<td>1 pC to 50 nC</td>
</tr>
<tr>
<td>Polarity</td>
<td>positive, negative</td>
</tr>
<tr>
<td>Discharge tolerance</td>
<td>±5 % or 1 pC</td>
</tr>
<tr>
<td>Holding time of the voltage step</td>
<td>&gt; 5 μs</td>
</tr>
<tr>
<td>Pulse synchronization</td>
<td>Light synchronization</td>
</tr>
<tr>
<td>PRF (Light synchronization)</td>
<td>2 impulses/cycle</td>
</tr>
<tr>
<td>PRF (Internal synchronization)</td>
<td>15 to 250 Hz</td>
</tr>
<tr>
<td>Input Impedance</td>
<td>50 Ω</td>
</tr>
</tbody>
</table>

Discharge levels

<table>
<thead>
<tr>
<th>Discharge level</th>
<th>Injection Capacitance</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 pC to 200 pC</td>
<td>1 pF</td>
</tr>
<tr>
<td>500 pC to 2 nC</td>
<td>10 pF</td>
</tr>
<tr>
<td>5 nC to 20 nC</td>
<td>100 pF</td>
</tr>
<tr>
<td>50 nC</td>
<td>200 pF</td>
</tr>
</tbody>
</table>

Mechanical

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>1.4 kg</td>
</tr>
<tr>
<td>Dimensions</td>
<td>120 mm x 200 mm x 42 mm (W x L x H)</td>
</tr>
<tr>
<td>Power Supply</td>
<td>100 - 240 V, 40 - 70 Hz</td>
</tr>
</tbody>
</table>

Applicable Standards


SCOPE OF SUPPLY

KAL 9510 PD calibrator with rechargeable battery, charger and banana connection cables.

OPTIONS

KAL 9510/SCS (IEC 17025) calibration and certificate for the KAL 9510.

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HAEFELY HIPOTRONICS has a policy of continuous product improvement. Therefore we reserve the right to change design and specification without notice.