Minimum Ignition Energy Apparatus MIE III

Do you have a need for minimum ignition energy data? Have you ever considered the benefits of making these measurements yourself?

The PRODUCT

The Chilworth Technology Minimum Ignition Energy Apparatus is a low cost, reliable way to measure the ignition sensitivity of a dust cloud. The test data provide essential information for the control of electrostatic hazards and the prevention of dust explosions.

This MIE apparatus is simple to use, easy to install and the design conforms to principal European and American test standards.

The COMPANY

Chilworth Technology is the leading provider of process hazards testing services, independent safety advice and equipment with bases in Europe and the USA.

Our professional consulting staff would be pleased to discuss the options available to meet your testing needs.
The Minimum Ignition Energy Apparatus comes complete with installation, commissioning and training for operators. A full warranty is standard and long-term maintenance and calibration contracts are available.

**BENEFITS**

- You can identify those powders capable of producing a dust explosion.
- You can identify powders at risk of ignition by electrostatic sparks from operators, plastic equipment and metal plant.
- Powders of ignition energy less than 5mJ can be identified, permitting appropriate precautions to be taken on plant.
- You have total control of your testing schedules.
- Conforms to principal European & American standards.
- Easy to operate: minimal training is required.

**COMPRISING**

- 19" rack containing a high voltage unit including an analogue meter with recorder output and 27 device capacitor bank.
- Dispersion unit with air handling, Hartmann tube and remote controller.

**OPTIONS**

- Spark energy calibrator.
- Maintenance and calibration contracts available.
- Limiting oxygen concentration measurement adaptor available.
- Acrylic or glass Hartmann tube.

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Standard:</th>
<th>Principal European &amp; American standards</th>
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<tbody>
<tr>
<td>Air Pressure:</td>
<td>8 to 10 bar</td>
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<tr>
<td>Power Supply:</td>
<td>220V/110V (specify on order)</td>
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<tr>
<td>Hartmann Tube Capacity:</td>
<td>1 litre</td>
</tr>
<tr>
<td>Energy Storage Range:</td>
<td>10 to 29990 pF in steps of 10 pF</td>
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<tr>
<td>Maximum Voltage:</td>
<td>15 kV</td>
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<tr>
<td>Capacitor Bank:</td>
<td>Discrete capacitor devices giving spark energies 1mJ to 1J</td>
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<tr>
<td>Control Housing:</td>
<td>9U 19&quot; rack</td>
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<tr>
<td>Nominal Spark Energy Range:</td>
<td>1 to 2000mJ in steps of 1mJ</td>
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