We test, You produce.

Ioniq 20
LEAK TESTER FOR HIGH VOLUME PRODUCTION

Based on its proven quality control testing product lines, ATEQ has developed a new leak tester, designed for the specific requirements of high volume production of plastic parts. This instrument is used for the detection of localized moulding faults, insufficient membrane thickness, perforations, etc.... The IONIQ is based on current discharge measurement and is able to detect defects in the range of 10µm.

Highlights

- 1 to 3 SIMULTANEOUS TEST CHANNELS
- DISPLAYS 1 to 3 CHANNELS
- FOR INDUSTRIAL LINE AND LABORATORY
Measurement principle

• The IONIQ measures the current flowing between a patented charged probe and a ground plate placed under the part to be tested.

• The IONIQ uses the % of the nominal voltage (which reflects the discharge current), measured on the part as PASS/FAIL level.

• In a PASS situation (fig 1): No hole, no weak part, the IONIQ measures a high %. The measured voltage and the nominal voltage are virtually equal. The result is above the reject level, the part has passed the test.

• In a FAIL situation (fig 2): The IONIQ measures a low %. The measured voltage is significantly below the nominal voltage. The result is below the reject level, the part has failed the test.

• Test limitations: short probe-part-plate distance, electrical insulation from environment.

Applications

• This system is ideal for your high volume tests on bottle caps for injection point defects on plastic or insulating membranes for thickness defects.

Main features

• Integrated ionizing high voltage generator (5 to 27.3 kV)

• Reject levels as % of nominal voltage (0 to 100%)

• Monitoring and protection of high voltage generator

• Limitation of the current rating

• Speed: Minimum cycle time 0.6s

• I/O’s for instrument control and results

• 32 programs

• Remote control allows the test module to be close to the test part

• Language selection, test customization

Technical features

<table>
<thead>
<tr>
<th>High voltage generator</th>
<th>Integrated and adjustable according to application (5 to 27.3 kV)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature</td>
<td>Operating: + 50° F to + 113° F</td>
</tr>
<tr>
<td></td>
<td>Storage: 32°F to + 140°F</td>
</tr>
<tr>
<td>Dimensions</td>
<td>Box dimensions: H x L x P = 136 x 250 x 255 mm</td>
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<tr>
<td></td>
<td>Weight: 17 lbs</td>
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<tr>
<td></td>
<td>Remote control dimensions: H x L x P = 250 x 250 x 60 mm</td>
</tr>
<tr>
<td></td>
<td>Weight: 6 lbs</td>
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<tr>
<td>Power supply</td>
<td>24 VDC/ 1A</td>
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<td>Note: It is vital that the instrument has a good</td>
</tr>
<tr>
<td></td>
<td>ground connection.</td>
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</tbody>
</table>

Interfaces

• Programming via remote control

• 7 inputs / 5 outputs for PLC controlled applications.

• Inputs:
  - Optically isolated
  - 24 V – 10 mA maximum or dry contact.

• Outputs:
  - Relay output
  - Rated 48 V / 200 mA maximum.

Optional

• Save results module
• Standard resistor box with 2 values