Highlights

The IISAC01 Analog Control Station (SAC) provides process loop control and monitoring capabilities for a single loop. The analog control station receives and sends information to and from the Harmony controller through the CIO-100 control I/O block, the IMCIS12 control I/O module, or the IMQRS12 quick response module. It includes features not found on earlier digital control stations:

- Additional analog input display with square root option.
- High resolution bar graph displays.
- Five or 40-kilobaud serial link.

Specifications

<table>
<thead>
<tr>
<th>Property</th>
<th>Characteristic/Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Displays</td>
<td>3 gas plasma bar graphs (200 segments for process variable and set point at 0.5% resolution, 100 segments for output at 1.0% resolution) 8-character, 14-segment, alphanumeric display</td>
</tr>
<tr>
<td>Bypass</td>
<td>Automatic entry or selected from faceplate</td>
</tr>
<tr>
<td>Communication</td>
<td>5 or 40 kbaud RS-485 serial link to the controlling module through the termination unit</td>
</tr>
<tr>
<td>Size</td>
<td>72 x 144 x 381 mm (2.82 x 5.67 x 15.0 in.)</td>
</tr>
<tr>
<td>Mounting</td>
<td>Flush panel mounting</td>
</tr>
<tr>
<td>Supply voltage</td>
<td>21.6 VDC minimum, 27.0 VDC maximum</td>
</tr>
<tr>
<td>Power consumption</td>
<td>540 mA at 24 VDC</td>
</tr>
<tr>
<td>Analog output:</td>
<td></td>
</tr>
<tr>
<td>Current</td>
<td>3 to 21 mA</td>
</tr>
<tr>
<td>Load</td>
<td></td>
</tr>
<tr>
<td>Compliance</td>
<td>600 Ω maximum</td>
</tr>
<tr>
<td>Inductance</td>
<td>600 mH maximum</td>
</tr>
<tr>
<td>Accuracy</td>
<td>2.0% of span at 25°C (77°F)</td>
</tr>
<tr>
<td>D/A resolution</td>
<td>8 bits</td>
</tr>
</tbody>
</table>
### Analog Control Station (IISAC01)

<table>
<thead>
<tr>
<th>Property</th>
<th>Characteristic/Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Analog input:</td>
<td></td>
</tr>
<tr>
<td>Voltage range</td>
<td>+0.75 VDC to +5.25 VDC maximum</td>
</tr>
<tr>
<td>Impedance</td>
<td>&gt;10 M(\Omega)</td>
</tr>
<tr>
<td>Accuracy</td>
<td>1.5% of span at 25°C (77°F)</td>
</tr>
<tr>
<td>A/D resolution</td>
<td>8 bit</td>
</tr>
<tr>
<td>Normal mode rejection</td>
<td>75 dB minimum at 60 Hz</td>
</tr>
<tr>
<td>Common mode rejection</td>
<td>90 dB minimum at 60 Hz</td>
</tr>
<tr>
<td>Common mode voltage</td>
<td>±5 VDC maximum</td>
</tr>
<tr>
<td>Electric drive:</td>
<td></td>
</tr>
<tr>
<td>R/L contact</td>
<td>100 mA maximum (sink or source)</td>
</tr>
<tr>
<td>M/A signal</td>
<td>100 mA maximum (sink or source)</td>
</tr>
<tr>
<td>M/A power</td>
<td>21.6 to 27 VDC</td>
</tr>
<tr>
<td>Electromagnetic/radio frequency</td>
<td>Do not use communication equipment any closer than 2 meters from the station panel</td>
</tr>
<tr>
<td>interference</td>
<td></td>
</tr>
<tr>
<td>Ambient temperature</td>
<td>5° to 40°C (41° to 104°F)</td>
</tr>
<tr>
<td>Humidity</td>
<td>operating: 20% to 80% (noncondensing)</td>
</tr>
<tr>
<td></td>
<td>storage: 10% to 95% (noncondensing)</td>
</tr>
<tr>
<td>Atmospheric pressure</td>
<td>Sea level to 3 km (1.86 mi)</td>
</tr>
<tr>
<td>Air quality</td>
<td>Noncorrosive</td>
</tr>
<tr>
<td>Certification</td>
<td>CSA certified for use as process control equipment in an ordinary (nonhazardous) location</td>
</tr>
</tbody>
</table>

**SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE**

### Related Documents

<table>
<thead>
<tr>
<th>Number</th>
<th>Document Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>WBPEEUD240003??</td>
<td>Harmony Control Input/Output, Data Sheet</td>
</tr>
<tr>
<td>WBPEEUD240007??</td>
<td>Harmony Rack Control Input/Output, Data Sheet</td>
</tr>
<tr>
<td>WBPEEU230022??</td>
<td>Analog Control Station Instruction</td>
</tr>
</tbody>
</table>

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