Hazardous Area ICS SmartSeries PCBA Upgrade Kit

Model 12826-001

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General Information

The Model 12826-001 Hazardous Area ICS SmartSeries PCBA Upgrade Kit adds microprocessor control to the ICS Page/Party® station, providing additional sensor and monitoring capabilities. It can be used with or without ADVANCE head-end equipment.

The Hazardous Area ICS SmartSeries PCBA Upgrade Kit provides the following components:

<table>
<thead>
<tr>
<th>Qty</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>ICS SmartSeries Module PCBA</td>
</tr>
<tr>
<td>1</td>
<td>Ribbon Cable Assembly</td>
</tr>
<tr>
<td>3</td>
<td>F/F Nylon standoffs, 1.25-inches long</td>
</tr>
<tr>
<td>1</td>
<td>M/F Standoff, 1.25-inches long</td>
</tr>
<tr>
<td>6</td>
<td>Screw, 4 × 5/16-inch PHTF</td>
</tr>
<tr>
<td>1</td>
<td>Screw, 4-40 × 1/4-inch PHMS</td>
</tr>
<tr>
<td>1</td>
<td>Label, Upgrade Kit</td>
</tr>
</tbody>
</table>

Installation

⚠️ WARNING ⚠️ Before performing any of the following settings and adjustments, remove all power from the station.

⚠️ WARNING ⚠️ To reduce the risk of hazardous atmospheres, disconnect the equipment from the supply circuit before making any adjustments to the amplifier’s handset level.
Opening the Station

Remove all cover bolts from the enclosure. Swing the front door open to access the internal PCBAs. See Figure 1.

![Diagram of ICS Hazardous Area Station - Interior View](image)

Figure 1. ICS Hazardous Area Station – Interior View

Installing the SmartSeries PCBA

1. Unplug the ribbon cable on the Main PCBA at P3.

2. Remove the four screws that secure the Main PCBA to the front cover.

3. Remove the six jumpers on the Main PCBA P4 connector and discard them.

4. Carefully flip over the Main PCBA and attach three nylon standoffs to the board using three 4 × 5/16 PHTF screws shown in Figure 2. Do not mount the SmartSeries PCBA to the Main PCBA at this time.

5. Install the provided 34-pin ribbon cable from P4 of the Main PCBA to P4 of the SmartSeries PCBA.

6. Reattach the Main PCBA to the front cover using three of the four screws removed. Use the M/F standoff in the fourth hole to secure the Main PCBA. See Figure 2.

7. Flip the SmartSeries PCBA over, so that the components are facing down. Secure the SmartSeries PCBA to the Main PCBA using three of the PHTF screws (provided) for the F/F nylon standoffs and the 4-40 screw for the one M/F standoff.
8. Place the upgrade kit label on the power supply housing as shown in Figure 3.

9. Plug the ribbon cable back into P3 of the Main PCBA. Refer to Figure 3 for the completed assembly configuration.
Attaching the Front Panel

1. After all connections have been completed, inspect and clean the machined flange joint surfaces of both the cover and the box. Surfaces must be smooth, free of nicks, scratches, dirt or any foreign particle build-up that would prevent a proper seal. Surfaces must seat fully against each other to provide a proper explosion-proof joint. Clean surfaces by wiping with a clean lint-free cloth.

2. Apply a light coat of Killark “LUBG” lubricant to flange surfaces and close the cover. Install and tighten all cover bolts to 30 ft-lbs. Make certain no cover bolts are omitted. Use only those bolts supplied with the enclosure.

3. Reapply power to the station.

Refer to Pub. 42004-723L2 for general information.