ScreenMaster RVG200
Paperless recorder
I/O module board upgrade

1 Introduction

The procedures in this publication must be performed by a trained technician.
This publication describes the upgrade procedures for the following I/O module boards in the RVG200 paperless chart recorder:
- RVG200/0700: 6-channel analog input board upgrade kit – see Table 1 for contents
- RVG200/0701: hybrid module board upgrade kit – see Table 2 for contents
- RVG200/0702: relay module board upgrade kit – see Table 3 for contents

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Terminal block assembly</td>
<td>RVG200/0051</td>
<td>1</td>
</tr>
<tr>
<td>6-channel analog input board assembly</td>
<td>RVG200/0285</td>
<td>1</td>
</tr>
<tr>
<td>Thermistor assembly</td>
<td>CM30/0052</td>
<td>1</td>
</tr>
<tr>
<td>Wire link</td>
<td>RVG200/0118</td>
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<td>This publication – RVG200 I/O module board upgrade kit</td>
<td>INF13/125-EN</td>
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Table 1 RVG200/0700 – 6-channel analog input board upgrade kit

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<tr>
<td>Hybrid module board</td>
<td>RVG200/0295</td>
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Table 2 RVG200/0701 – hybrid module board upgrade kit

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<tr>
<td>Relay module board</td>
<td>RVG200/0305</td>
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<td>INF13/125-EN</td>
<td>1</td>
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</tbody>
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Table 3 RVG200/0702 – relay module board upgrade kit

2 Safety

NOTICE
Dispose of the old components as detailed in the Operating Instruction (OI/RVG200-EN).

3 Tools required

- Medium flat-bladed screwdriver

4 Installing the I/O module board

WARNING
Isolate all power supplies to the recorder before performing upgrade procedures.

CAUTION
The recorder is vulnerable to electrostatic damage. Wear an anti-static strap or dismantle the unit on an anti-static workbench.

Referring to Figure 1:
1 Remove tamper-evident seal A (if fitted).
2 Using the flat-bladed screwdriver, unscrew jacking screw B.
3 Withdraw chassis C from case D.

Figure 1 Removing the recorder from its case
...4 Installing the I/O module board

Referring to Figure 2:

4 Remove PCB clamp bar (E) by carefully releasing 2 retaining clips (F) (one on each side of clamp bar) and lifting clamp bar up.

Referring to Figure 3:

5 Remove existing I/O module (G) (if fitted) by unplugging it from base board (H).

Referring to Figure 4:

6 Fit new I/O module (I) (in place of existing I/O module if fitted previously) by locating it in position on base board (J).

If an I/O module was not fitted previously, ensure the new I/O module is located in the correct slot position (A, B, C or D).

7 Refit PCB clamp bar by reversing the removal procedure detailed in step 4.

If an existing I/O module board was replaced, proceed to step 11.

If an I/O module was not fitted previously, proceed to step 8.
WARNING

Isolate all power supplies to the recorder before removing terminal cover \( K \).

Referring to Figure 5:

8 Remove terminal cover \( K \) from case \( L \) by pressing down into recess \( M \) and pulling the terminal cover away from the case.

9 Remove blanking plate \( N \) from case \( L \) by inserting flat-bladed screwdriver into slot \( O \) (2 slots) to release the locking arm and pull blanking plate \( N \) away from case \( L \).

Referring to Figure 6:

10 Press I/O module board connector \( P \) into the appropriate slot position in the rear of case \( Q \).

11 Refit the terminal cover to the case by reversing the removal procedure detailed in step 8.

12 Refit the chassis to the case by reversing the removal procedure detailed in step 3.

13 Restore power to the recorder.