SM500F
Field-mountable paperless recorder
Analog/Digital I/P, dual relay, Tx PSU and dual analog/digital I/P module board upgrade kit installation

1  Introduction

This document describes how to install additional analog/digital input and/or dual relay or transmitter power supply module boards.

The analog/digital input module board upgrade kit (SM500/0700) comprises the following:

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Analog/Digital input module board assembly</td>
<td>SM500/0225</td>
<td>1</td>
</tr>
<tr>
<td>Information – Analog/Digital I/P, dual relay, Tx PSU and dual analog/digital I/P module board upgrade kit installation</td>
<td>INF06/94</td>
<td>1</td>
</tr>
</tbody>
</table>

Table 1  Analog/Digital input module board upgrade kit contents

The dual relay module board upgrade kit (SM500/0701) comprises the following:

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dual relay module board assembly</td>
<td>SM500/0235</td>
<td>1</td>
</tr>
<tr>
<td>Information – Analog/Digital I/P, dual relay, Tx PSU and dual analog/digital I/P module board upgrade kit installation</td>
<td>INF06/94</td>
<td>1</td>
</tr>
</tbody>
</table>

Table 2  Dual relay module board upgrade kit contents

The transmitter power supply module board upgrade kit (SM500/0706) comprises the following:

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transmitter power supply module board assembly</td>
<td>SM500/0275</td>
<td>1</td>
</tr>
<tr>
<td>Information – Analog/Digital I/P, dual relay, Tx PSU and dual analog/digital I/P module board upgrade kit installation</td>
<td>INF06/94</td>
<td>1</td>
</tr>
</tbody>
</table>

Table 3  Transmitter power supply module board upgrade kit contents

The dual analog/digital input module board upgrade kit (SM500/0725) comprises the following:

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dual analog/digital input module board assembly</td>
<td>SM500/0285</td>
<td>1</td>
</tr>
<tr>
<td>Information – Analog/Digital I/P, dual relay, Tx PSU and dual analog/digital I/P module board upgrade kit installation</td>
<td>INF06/94</td>
<td>1</td>
</tr>
</tbody>
</table>

Table 4  Dual analog/digital input module board upgrade kit contents

2  Tools required

The following tools are required to perform the installation:

- No.1 Pozidriv screwdriver
- No.2 Pozidriv screwdriver
- Flat-bladed screwdriver, 3 to 4 mm wide tip.
3 Installing a module board

**CAUTION**
The instrument is vulnerable to electrostatic damage. Wear an anti-static strap or use an anti-static workbench when installing module boards.

Referring to Figure 1, install an analog/digital input, dual relay or transmitter PSU module board as follows:

1. Unlock the instrument door with the key supplied, press the release catch and open the door.

**WARNING**
Before proceeding to step 2, isolate the instrument from the power supply.

2. Remove the tamper-evident seal (if fitted), release the captive screw securing the inner cover plate and remove the inner cover plate.

3. Identify the module board position (see Figure 2.8 on page 17 of the User Guide, IM/SM500F). Align the connectors on the module board and the motherboard and press home, ensuring the connectors engage correctly.

   **Note.** The dual relay module board or the transmitter power supply module board must be fitted only in position D.

4. Secure the module board with the M3 x 16 screw.

   **Note.** Connect the module board as detailed in Sections 2.3 and 2.4 of the User Guide, IM/SM500F.

5. Locate the inner cover plate lugs in the slots in the outer case and close the inner cover plate.

6. Tighten the inner cover plate retaining screw and fit a tamper-evident seal (if required).

7. Close and lock the instrument door and restore the power supply to the instrument.

Figure 1  Installing an analog/digital input, dual relay or transmitter power supply module board
4 Notes
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