**Description**

The MicroM provides remote reset, remote alpha-numeric display, and serial communications as stand-alone or in combination through the employment of optional boards. Refer to ORDERING INFORMATION for MicroM Chassis types for units that have pre-installed functions.

**FIGURE 1. PLUG-IN BOARD LOCATION AND INSTALLATION**

**WARNING:** Disconnect power before servicing.

**Installation**

For upgrading standard units or for replacing the installed plug-in board, grasp plug-in board at the top and pull away from the chassis, freeing the unit from the retaining standoff. Lift plug-in board up and away from connector located on chassis board. Guide new plug-in board into the same connector and push onto standoff.

Install dust cover with shroud to accommodate external wiring.

Refer to bulletin MC-5000 for a complete description.
Remote Reset

The MEC120R, MEC120RC, or any chassis type with the appropriate plug-in board installed provides remote reset capabilities in the event of the lockout condition. A remote reset switch consists of a dry contact such as a remote momentary push-button wired to the two (2) terminals located on the plug-in board as shown on the front page. The reset switch will also force the MicroM to recycle if depressed and released during the purge or run period.

CAUTION: Remote reset is recommended only on a control solely for proved ignition programming (pilot ignited burner) or a control for use only with applications in which unburned fuel cannot accumulate and that is intended for installation in inaccessible locations such as open-flame, ceiling-suspended gas heaters.

REMOTE DISPLAY

The MicroM provides an interface to the optional ED510 display module. The ED510 connects to the MicroM through the plug-in board using a ED580 cable. The ED580 cable is available in 2, 4, or 8 foot lengths. Part number 129-145 -1 (4 ft.), -2 (8 ft.), -4 (2 ft.) is available for remote mounting the ED510 Display Module.

COMMUNICATIONS

In order to interface with upper level systems such as PLC’s, the MicroM provides a communication interface utilizing a Modbus protocol. Communication is implemented using two wire, twisted pair RS485 at 4800 baud and is accessed through the appropriate plug-in optional board as shown on the front page. Polarity of lines A and B must be observed. Suggested cable is Belden 8761 or equivalent.

<table>
<thead>
<tr>
<th>Optional Plug-In Board</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MED1</td>
<td>Standard local reset switch</td>
</tr>
<tr>
<td>MED2</td>
<td>Same as MED1 with display output</td>
</tr>
<tr>
<td>MED3</td>
<td>Same as MED1 with remote reset</td>
</tr>
<tr>
<td>MED4</td>
<td>Same as MED1 with display output and remote reset</td>
</tr>
<tr>
<td>MED5</td>
<td>Same as MED1 with display output and communications</td>
</tr>
<tr>
<td>MED6</td>
<td>Same as MED1 with display output, remote reset and communications</td>
</tr>
<tr>
<td>MED7</td>
<td>Same as MED1 with communications</td>
</tr>
</tbody>
</table>

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