PT-U (Programming Tool - Universal)

**Programmer Switch Legend**

<table>
<thead>
<tr>
<th>RUN/PROGRAM</th>
<th>SCREEN UP</th>
<th>SETTING UP</th>
<th>VALUE INC/+</th>
<th>CHANNEL UP</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOWN</td>
<td>DOWN</td>
<td>DEC/-</td>
<td>DOWN</td>
<td></td>
</tr>
</tbody>
</table>

To change settings in your Miratron Programmable Receiver (R4-P & R2-P), connect the Programming Tool to the receiver via standard 4-pin tether cable. While connected, the Programming Tool can be taken offline via the RUN/PROGRAM button without disconnecting the cable. This allows the user to quickly observe the effect of changed settings.

**PROGRAMMER ONLINE**
The programming tool may be used to make adjustments - the receiver WILL NOT respond to radio commands.

**PROGRAMMER OFFLINE**
The programming tool cannot be used to make adjustments - the receiver WILL respond to radio commands.

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**Programming a R4-P:**

With the programmer online, use the toggle switches to navigate and make changes to the various settings.

**PWM FREQUENCY ADJUST SCREEN**
For current PWM proportional outputs only
Select Channel in banks of four
Adjust Value to valve specifications

**OUTPUT PROGRAMMING SCREEN**
Select output Channel
Select Setting
Adjust Value of setting

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Programming a R2-P:

SETUP AND DIAGNOSTIC MENU GUIDE

WELCOME SCREEN
Displays project name and model number

HISTORY SCREEN
Displays run time and programming date

PWM FREQUENCY ADJUST SCREEN
For current PWM proportional outputs only
Select CHANNEL in banks of four
Adjust VALUE to valve specifications

TRANSMITTER DIAGNOSTICS SCREEN
Displays transmitter status and address
Displays function codes for switches
Displays status of proportional controls

INPUT DIAGNOSTICS SCREEN
Select input CHANNEL (if equipped)
Bar graph display shows input voltage

OUTPUT PROGRAMMING SCREEN
Select output CHANNEL
Displays function name and status
Select SETTING
Adjust VALUE of setting
Bar graph display shows setting level

OUTPUT STATUS SCREEN
Bar graph display shows status of all outputs

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