Unpacking

Carefully check the packing material for these accessories: GNSS antenna, standard antenna cable assembly, and mounting screws for rack ear removal. Handle the GNSS antenna carefully, as it may be damaged if dropped.

Configuring Output Jumpers

Listed below are the various internal jumpers which control the input and output signal types. Some output signals require two jumpers to be set.

![Jumper Locations](image)

**Figure 1: Jumper Locations**

<table>
<thead>
<tr>
<th>Connector</th>
<th>Jumper(s)</th>
<th>Signal Selection</th>
<th>Drive Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Port 1</td>
<td>JMP6, JMP7</td>
<td>IRIG-B Unmodulated</td>
<td>CMOS, Open Drain</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 PPS</td>
<td>Prog. Pulse</td>
</tr>
<tr>
<td></td>
<td></td>
<td>A</td>
<td>B</td>
</tr>
<tr>
<td>Port 2</td>
<td>JMP13, JMP12</td>
<td>IRIG-B Unmodulated</td>
<td>CMOS, Open Drain</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 PPS</td>
<td>Prog. Pulse</td>
</tr>
<tr>
<td></td>
<td></td>
<td>A</td>
<td>B</td>
</tr>
<tr>
<td>Port 3</td>
<td>JMP8, JMP9</td>
<td>IRIG-B Unmodulated</td>
<td>CMOS, Open Drain</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 PPS</td>
<td>Prog. Pulse</td>
</tr>
<tr>
<td></td>
<td></td>
<td>A</td>
<td>B</td>
</tr>
<tr>
<td>Fiber</td>
<td>JMP14</td>
<td>IRIG-B Unmodulated</td>
<td>CMOS, Open Drain</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 PPS</td>
<td>Prog. Pulse</td>
</tr>
<tr>
<td></td>
<td></td>
<td>A</td>
<td>B</td>
</tr>
</tbody>
</table>

* Default Setting

**Note 1:** Must select Drive Type of CMOS or Open Drain when not used as Event Input.

**Note 2:** Must select Drive Type of CMOS when not used for IRIG-B Modulated or as Event Input.

Table 1: Main Output Signal Selection
### Installing GNSS Antenna

The GNSS antenna included with the clock is designed to be threaded onto a piece of 3/4 inch pipe nipple. Make sure that the antenna has a clear view of the sky in all directions of the compass for best GNSS satellite tracking.

1. Pass the antenna cable through the pipe nipple and attach the cable to the antenna. *Tighten by hand, spinning the cable connector. DO NOT spin the antenna onto the cable or DAMAGE may occur.*
2. Thread the pipe nipple into the base of the antenna and snug by hand.
3. Mount the pipe nipple to a fixture, such as our Antenna Mounting Kit.
4. Install GNSS Surge Protector or In-Line Preamplifier if needed. Reference their respective instructions.
5. Connect the antenna cable to the clock.
Connecting Signal Cables

1. Pluggable terminal block: Strip the insulation 1/4 inch and DO NOT tin.
3. Options: Refer to manual

Connecting Power Cables

- VERIFY that the voltage level is in the correct range.
- VERIFY that the polarity is as specified on the label.
- Strip the insulation 1/4 inch and DO NOT tin.
- A fuse is located to the left of each installed power inlet connector.

Configuring with Front Panel

- Press SETUP to cycle through the menu structure.
- Press ENTER to select the menu.
- Press UP or DOWN to change the selection.
- Press ENTER to confirm selection.
- Press any of the top row keys to leave the configuration menu.

Configuring with Utility Software

Utility Software is available from www.arbiter.com

Additional Help

The operation manual is available as a free download from www.arbiter.com or to purchase.