 UltimusPlus Dispenser Network Connection Instructions

Introduction
This document provides procedures for connecting the UltimusPlus™ fluid dispenser to a network and then sending commands to the dispenser, including commands to remotely switch dispense programs.

Connecting the Dispenser to a Computer
1. Switch ON the dispenser power.
2. Using standard Ethernet cables and an Ethernet switch, connect a personal computer with a static IP address to the Ethernet port on the back of the UltimusPlus dispenser.
   
   NOTES:
   - The Ethernet port allows only one socket connection.
   - The dispenser will continue to accept commands until the socket is closed.
   - Once the socket is closed, the dispenser must be rebooted for the connection to work again.

3. To set up your computer with the correct IP settings, continue to “Setting the IP Address of a Computer” on page 2.
Setting the IP Address of a Computer

Each computer in a networked system must have a unique IP address. Follow this procedure to change the IP address of a computer.

NOTE: To change the IP address of the dispenser: Press Settings ⮚ Ethernet, enter the desired IP address, then press Activate & Reboot.

1. On your computer, navigate to the “Network and Sharing Center.”
2. Click “Change Adapter Settings.”
3. Select “Local Area Connection” (Windows 7) or “Ethernet” (Windows 10).
4. Double-click (Windows 7) or right-click (Windows 10) to select “Properties.”
Setting the IP Address of a Computer (continued)


6. Click “Use the following IP address” and then enter the desired IP address.
   **NOTE:** The digit range for each field is 1–255.

7. Click OK > OK to save the new IP address.

8. Click OK in the Local Area Connection properties window (Windows 7) or the Ethernet properties window (Windows 10).

9. Depending on the networking tool you will be using, continue to one of the following sections to set up the computer to send commands to the dispenser:
   - “Using Tera Term to Communicate with the Dispenser” on page 4
   - “Using PuTTY to Communicate with the Dispenser” on page 5
Using Tera Term to Communicate with the Dispenser

1. Once the computer is connected to the UltimusPlus dispenser, open a command prompt (or a terminal) and ping the IP address of the UltimusPlus dispenser. The default IP address of the dispenser is 192.168.10.40.

   If the ping is successful, continue with the next steps to create a TCP connection to port 9000 of the dispenser. This section provides instructions for using the Tera Term networking tool.

2. Open Tera Term and begin with the New Connection screen (shown below).

3. Select TCP/IP and, next for Host, enter the IP address of the UltimusPlus dispenser (192.168.10.40).

4. Click Setup > Terminal.

5. Select Local echo and Auto switch [VT<->TEK].

   • If the error shown below appears, you are not connected to the dispenser and there is a network issue. Contact your network administrator for assistance.

   • If the command window shown below appears, then the TCP/IP connection is created and you can send commands to the UltimusPlus dispenser. Refer to “UltimusPlus Dispenser Remote Commands” on page 6 for the command list.
Using PuTTY to Communicate with the Dispenser

1. Once the computer is connected to the UltimusPlus dispenser, open a command prompt (or a terminal) and ping the IP address of the UltimusPlus dispenser. The default IP address of the dispenser is 192.168.10.40.

   If the ping is successful, continue with the next steps to create a TCP connection to port 9000 of the dispenser. This section provides instructions for using the PuTTY networking tool.

2. Open PuTTY and begin with the PuTTY Configuration screen (shown below).

3. Ensure that the Host Name shows IP address (192.168.10.40) and Port (9000) of the UltimusPlus dispenser.

4. Click Open.

   - If the error shown below appears, you are not on the same network or have entered the wrong IP address. Contact your network administrator for assistance.

   - If the command window shown below appears, then the TCP/IP connection is created.

Now you can send commands to the UltimusPlus dispenser. For each command you enter, PuTTY responds with the same command, as shown below. Refer to “UltimusPlus Dispenser Remote Commands” on page 6 for the command list.
## UltimusPlus Dispenser Remote Commands

<table>
<thead>
<tr>
<th>Command</th>
<th>Response</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Program1_0</td>
<td>Program1_0</td>
<td>Unit switches to program 1</td>
</tr>
<tr>
<td>Program2_0</td>
<td>Program2_0</td>
<td>Unit switches to program 2</td>
</tr>
<tr>
<td>Program3_0</td>
<td>Program3_0</td>
<td>Unit switches to program 3</td>
</tr>
<tr>
<td>Program4_0</td>
<td>Program4_0</td>
<td>Unit switches to program 4</td>
</tr>
<tr>
<td>Program5_0</td>
<td>Program5_0</td>
<td>Unit switches to program 5</td>
</tr>
<tr>
<td>Program6_0</td>
<td>Program6_0</td>
<td>Unit switches to program 6</td>
</tr>
<tr>
<td>Program7_0</td>
<td>Program7_0</td>
<td>Unit switches to program 7</td>
</tr>
<tr>
<td>Program8_0</td>
<td>Program8_0</td>
<td>Unit switches to program 8</td>
</tr>
<tr>
<td>Program9_0</td>
<td>Program9_0</td>
<td>Unit switches to program 9</td>
</tr>
<tr>
<td>Program10_0</td>
<td>Program10_0</td>
<td>Unit switches to program 10</td>
</tr>
<tr>
<td>Program11_0</td>
<td>Program11_0</td>
<td>Unit switches to program 11</td>
</tr>
<tr>
<td>Program12_0</td>
<td>Program12_0</td>
<td>Unit switches to program 12</td>
</tr>
<tr>
<td>Program13_0</td>
<td>Program13_0</td>
<td>Unit switches to program 13</td>
</tr>
<tr>
<td>Program14_0</td>
<td>Program14_0</td>
<td>Unit switches to program 14</td>
</tr>
<tr>
<td>Program15_0</td>
<td>Program15_0</td>
<td>Unit switches to program 15</td>
</tr>
<tr>
<td>Program16_0</td>
<td>Program16_0</td>
<td>Unit switches to program 16</td>
</tr>
<tr>
<td>DispenseTrigger_0</td>
<td>TriggeringDispense_0</td>
<td>If in timed mode, unit triggers a dispense</td>
</tr>
</tbody>
</table>

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