Com Series™

HOW-TO GUIDE:
DSC PASSTHRU
DSC PASSTHRU OVERVIEW

CellCom and DualCom Universal Communicators enable you to take over and manage DSC panels with connection to the DSC Bus. This feature is called DSC Passthru.

Required Materials

The following software and hardware components are required to perform system takeovers:

- DSC PowerSeries Model PC1616, PC1832, or PC1864
- CellCom or DualCom with firmware Version 202 or higher
- Programming keypad
- Model 330 or Model 330-24V programming cable
- Cat 5 Ethernet cable (only when using network)
- 18-22 AWG unshielded wire (RYGB)
- Remote Link Version 2.02 or higher
- (Optional) Model 330-DSC programming harness and DLS panel programming software

Figure 1: CellCom and DualCom Components
WIRE THE COMMUNICATOR

The communicator can be connected to the ECP Bus of a Honeywell panel. See Table 1 and Figure 2 for the necessary wiring connections.

**Caution:** Remove all AC and battery power from the panels before wiring.

1. Attach the antenna to the SMA connector. Refer to Figure 1.
2. Connect system batteries as needed, then connect the panels to an appropriate power source.
3. Connect a programming keypad to the communicator.
   a. For 12 VDC applications, connect the keypad to the communicator PROG header with a Model 330 programming harness.
   b. For 24 VDC applications, connect the keypad to the communicator PROG header with a Model 330-24V programming harness with an in-line resistor.
4. After programming is complete, remove the keypad and replace the housing cover on the mounted base.

**Note:** Address 1 is reserved by the system for programming keypads.

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### Table 1: DSC Wiring

<table>
<thead>
<tr>
<th>Communicator to DSC Wiring</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Communicator</td>
<td>DSC Bus</td>
</tr>
<tr>
<td>DC+</td>
<td>RED</td>
</tr>
<tr>
<td>DC-</td>
<td>BLK</td>
</tr>
<tr>
<td>Z4+</td>
<td>YEL</td>
</tr>
<tr>
<td>Z4-</td>
<td>GRN</td>
</tr>
<tr>
<td>T or T1</td>
<td>TIP</td>
</tr>
<tr>
<td>R or R1</td>
<td>RING</td>
</tr>
<tr>
<td>N/A</td>
<td>Bell+ to Bell- (1k Ω EOL)</td>
</tr>
<tr>
<td>N/A</td>
<td>Zones 1 - 8 (5.6k Ω EOL)</td>
</tr>
<tr>
<td>PROG</td>
<td>PC Link (COM) Tab Up</td>
</tr>
</tbody>
</table>
Remote Programming Connection (Model 330-DSC)

Figure 2: DSC Wiring
PROGRAM THE COMMUNICATOR

This section assumes that you’ve already programmed basic communicator settings. For more complete information about programming, refer to the CellCom Installation Guide (LT-1817) or the DualCom Installation Guide (LT-1859).

To advance through the programming menu, press CMD. To go back, press the Back Arrow key. To enter a menu, press any select key or area. To select an option, press the select key or area under that option.

1. **Change Keypad Input to DSC**
   1. Press and release the communicator Reset button.
   2. At the communicator keypad, enter 6653 (PROG) and press CMD.
   3. Advance to SYSTEM OPTIONS, then press any select key or area to enter the menu.
   4. Advance to KYPD INPUT, then press any select key or area.
   5. Press the third select key or area to select DSC.
   6. To save programming, advance to STOP and press any select key or area.

2. **Auto-Configure the DSC Panel**
   CellCom and DualCom Series Universal Communicators with firmware version 202 and higher enable installers to automatically configure DSC panels for Passthru communication. Refer to Table 2 for programming messages and troubleshooting steps.
   1. Ensure the DSC panel IP address is set as default.
   2. At the communicator keypad, enter 2313 (DIAG) and press CMD.
   3. Advance to DSC SETUP and press any select key or area.
   4. At INST CODE, enter the DSC panel installer code and press CMD.
   5. After configuration is finished, the keypad advances to GET ZONES. Press any select key or area.
   6. At INST CODE, enter the DSC panel installer code and press CMD to retrieve zones.

As the communicator retrieves zones from the DSC panel, the number of zones is displayed and incremented as ZONE CT (zone count).

<table>
<thead>
<tr>
<th>Message</th>
<th>Meaning</th>
<th>Next Steps</th>
</tr>
</thead>
<tbody>
<tr>
<td>PROGRAMMING</td>
<td>The communicator is attempting to configure DSC panel programming settings for DSC Passthru.</td>
<td>Wait for the configuration attempt to complete. Afterward, a programming status message is displayed (success, fail, or busy).</td>
</tr>
<tr>
<td>PROGRAM SUCCESS</td>
<td>The DSC panel has been successfully configured.</td>
<td>Finish configuration at GET ZONES.</td>
</tr>
<tr>
<td>PROGRAM FAIL</td>
<td>The DSC panel could not be programmed.</td>
<td>Check wiring connections and communication settings, then retry programming.</td>
</tr>
<tr>
<td>BUS IS BUSY</td>
<td>The DSC panel could not be programmed due to high DSC bus traffic.</td>
<td>Wait and retry programming or reduce traffic on the DSC bus, then retry programming.</td>
</tr>
</tbody>
</table>

Table 2: Programming Messages and Troubleshooting
ADDITIONAL INFORMATION

Remote Programming
DSC panels allow a 6-hour interval for remote programming connections after the panel is initially powered up. After that interval expires, technicians can re-enable DLS connection for another 6 hours by disarming the panel and entering the following code combination: "6 + [master code] + 5."

Refer to Figure 2 for remote programming connection.

1. Right-click Remote Link and select **Run as administrator**.
2. If necessary, create the communicator account.
3. Double-click the communicator account.
5. Open DLS.
6. Double-click the DSC panel.
7. Edit programming as needed, then press the Upload Programming button.

Virtual Keypad
Virtual Keypad enables users to manage their systems remotely, including arming, disarming, viewing zone status, bypassing zones, view history, manage users, and more.