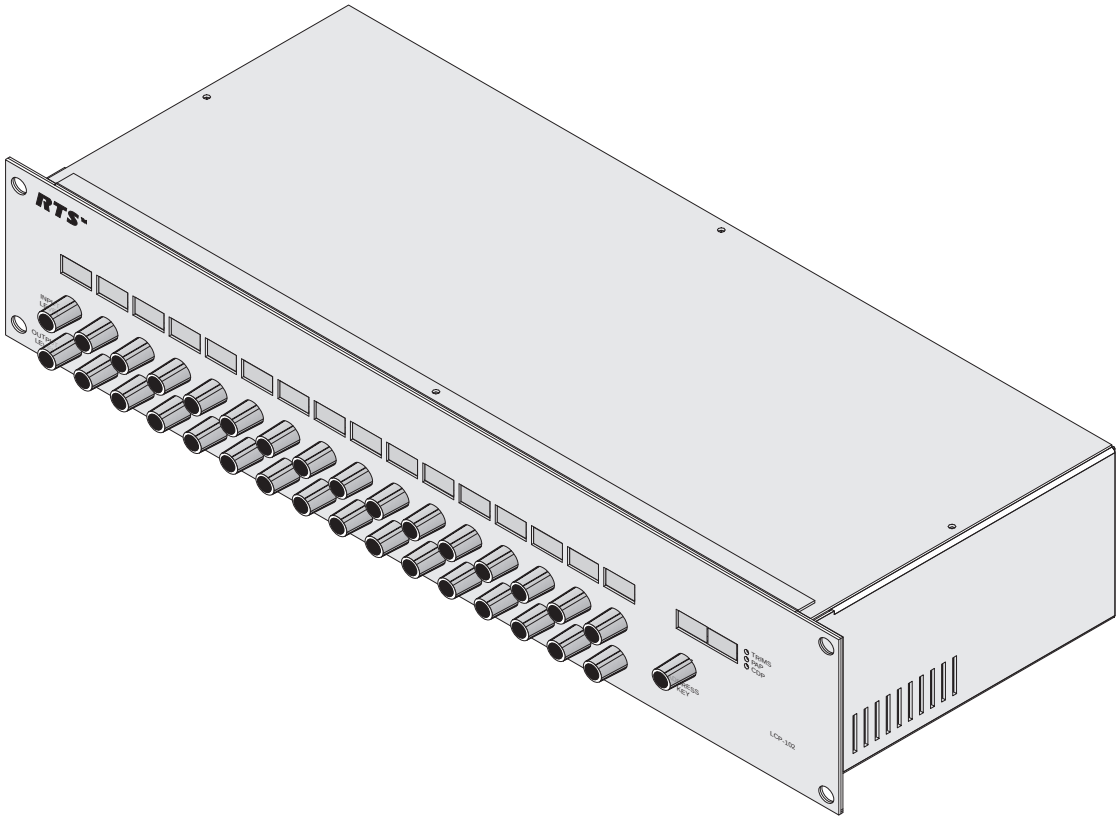
USER MANUAL

Model LCP-102
Level Control Panel

ADAM™, ADAM™ CS, and ZEUS™ Intercom Systems



RTS™

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This package should include the following:

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1. INTRODUCTION

These instructions describe the installation and operation of the LCP-102 Level Control Panel, Version 1.0, in an ADAM™, ADAM™ CS, or Zeus™ Intercom System. Note that the LCP-102 is not compatible with the CS9000 Series Intercom Systems. To complete the configuration of some features, you may need to run your CSedit, ADAMedit, or Zeus-edit Intercom System Configuration Software, and you may need to refer to the documentation for that software.

2. LCP-102 DESCRIPTION

The LCP-102 combines the features of an Analog Trim Panel, a Camera Delegate Panel, and a Program Assign Panel in a single frame that is only 2 rack units high. You can easily switch between its three panel modes and make rapid configuration changes using the menu selector on the front panel. In each mode, you can make up to 64 assignments and then adjust the levels for those assignments. For example, in TRIMS mode, you can assign and adjust the analog input and output trims for up to 64 intercom ports. In PAP mode, you can select the program input source and set its level for each of 64 IFB's. In CDP mode, you can assign up to 64 intercom ports to any combination of party lines and then adjust the listen level for each participant on that party line.

The LCP-102 connects to the auxiliary data port of any ADAM™, ADAM™ CS, or Zeus™ Intercom System, and it also has a loop connector for connection to another auxiliary device, such as another LCP-102, or a UIO-256 Universal Input/Output frame. Since a single LCP-102 provides trim adjustments for 64 ports, only one unit is required to completely configure an ADAM CS or Zeus system. For larger ADAM Intercom Systems, up to 15 additional LCP-102 frames can be connected via the loop connectors.

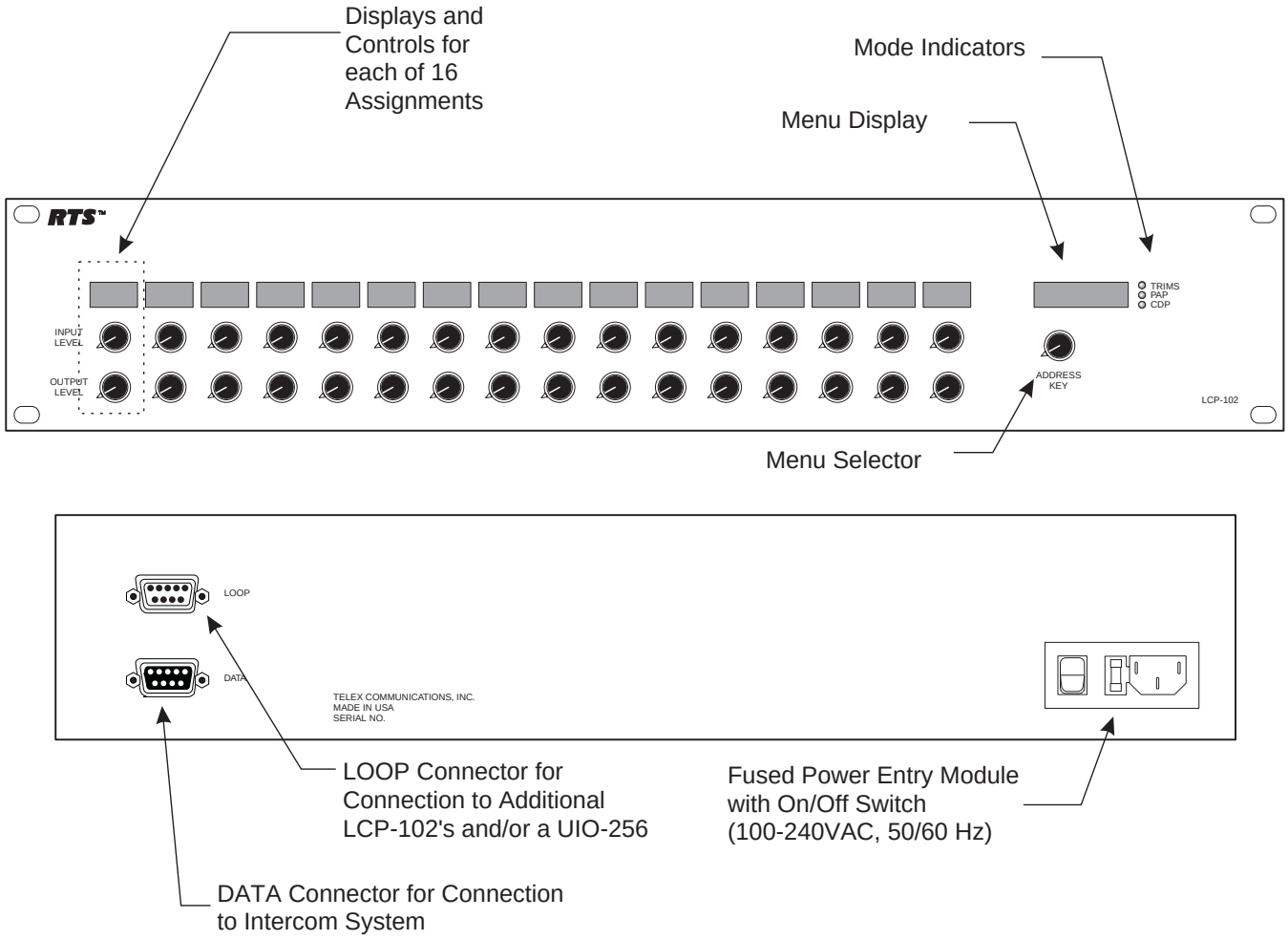


Figure 1. LCP-102 Reference View

3. PACKAGE CONTENTS

1	LCP-102 Level Control Panel
1	Power cord
1	User Manual

4. INSTALLATION

4.1. Location and Mounting

The LCP-102 occupies 2 rack spaces in a standard 19-inch equipment rack or bay, and it is 7.25 inches (184.2 mm) deep behind the front panel (including the rear panel connectors). There are no special ventilation requirements. The LCP-102 should be mounted at or near operator eye-level when standing or sitting to permit easy access to the front panel controls and displays.

4.2. Connections

System connections are summarized in Figure 2. Cable diagrams are shown in Figures 3 to 8. Note that when connecting a UIO-256 Frame along with the LCP-102, you have a choice of two methods: either using the LOOP connector of the LCP-102, or using a "Y" cable. If you have several LCP-102's connected in a chain, you can connect the UIO-256 to the LOOP connector of the last LCP-102 in the chain, or you can insert it anywhere in the chain with a "Y" cable. Whichever configuration you use, you can also connect three additional UIO-256 Frames to the first UIO-256 in a ring configuration as illustrated in the UIO-256 Manual.

5. POWER-UP AND INITIAL SETTINGS

5.1. Applying Power

Turn on the power switch on the back of each connected LCP-102. During a normal power-up the alphanumeric displays will first show asterisks (****). After a few moments, some assignments may appear in the displays above selected keys (depending on whether or not anything was previously assigned using the intercom system configuration software). If there are currently no assignments, the displays will show dashes. If the LCP-102 that is connected to the intercom system cannot establish communication with the intercom system, all LCP-102 displays will continue to show asterisks. In this case, check the cable from the first LCP-102 to the intercom system and verify that the intercom system is operational. If more than one LCP-102 is used, you will have to set the addresses using the programming menus as described below.

5.2. Programming Menus

The LCP-102 programming menus are accessed using the ADDRESS KEY. The menus are summarized in Table 1 The following paragraphs describe the use of the menus.

Table 1. The LCP-102 Programming Menus

PAGE SEL MENU ITEMS	SERVICE MENU ITEMS
PAGE 1	DIMMER
PAGE 2	SET ADDR
PAGE 3	SET MODE
PAGE 4	VER

5.3. Setting the Panel Address

Before programming any assignments, each LCP-102 should be set to a unique panel address as follows:

☞ Each programming step should be performed within about 10 seconds. Otherwise, the LCP-102 will automatically cancel the procedure.

1. Rotate the ADDRESS KEY to display SERVICE, then click the key once. DIMMER will appear in the menu display.

2. Rotate the ADDRESS KEY to display SET ADDR, then click the control. ADDR 1 will display.

3. For the first LCP-102, select ADDR 1, then click the ADDRESS KEY. This will store the setting, and all displays will show asterisks for a few moments. Then, all displays will show dashes.

4. Double-click the ADDRESS KEY control to exit programming mode when finished. Otherwise, the LCP-102 will automatically exit after about 10 seconds.

☞ The address setting is retained in the LCP-102 memory when power is removed.

5. Repeat the above steps for any additional LCP-102's, selecting ADDR 2 for the second LCP-102 and so forth.

5.4. Adjusting the Dimmer

Rotate the ADDRESS KEY until SERVICE appears in the menu display, then click the ADDRESS KEY once. DIMMER will appear in the display. Click the ADDRESS KEY again. One or more right-pointing arrowheads will appear. Rotate the ADDRESS KEY to increase or decrease the brightness of the arrowheads. Click the ADDRESS KEY to save your change. All displays will flash asterisks at the new brightness level and then return to displaying their normal assignments.

6. OPERATION

6.1. Panel Mode Selection

The LCP-102 has three panel modes: TRIMS, PAP and CDP. Select the panel mode as follows:

1. Rotate the ADDRESS KEY to display SERVICE then click.

2. Rotate the ADDRESS KEY to display SET MODE then click.

3. Rotate the ADDRESS KEY to display the desired panel mode then click. Once you have selected a panel mode, you are ready to select a setup page.

6.2. Page Select

Within each panel mode, there are four setup pages of assignments available. Each page lets you setup 16 assignments. You can then switch between pages to view settings or make changes. Select pages as follows:

1. Rotate the ADDRESS KEY to display PAGE SEL, then click.

2. Rotate the ADDRESS KEY to select PAGE 1, or PAGE 2 etc., then click. Any assignments that have already been configured for that page will now appear in the displays. Otherwise, the displays will show dashes. You are now ready to setup assignments on the newly selected page. Refer to the following paragraphs that apply to the currently selected panel mode.

6.3. TRIMS Mode Assignments and Operation

6.3.1 General

In TRIMS mode, you assign individual ports of the intercom system to displays and then adjust the input and output trims. This is the same as adjusting the Analog Input/Output Gains in ADAMedit or Zeus-edit.

6.3.2 Trims Mode Assignments

1. Place the LCP-102 in TRIMS mode as previously described under "Panel Mode Selection".

2. Select one of the four setup pages as previously described under "Page Select".

3. Select one of the 16 assignable displays that is currently unused by clicking either of the controls under that display. Then, rotate the control to scroll through the list of intercom ports. When you locate the intercom port that you want to assign, click the control again. The selected intercom port is now assigned to that display.

4. Repeat these steps to make further assigments.

5. To cancel or clear an assignment, click either of the assigment's controls. The display will go blank. Click the control once more and the display will return to showing dashes, indicating no assignment.

6.3.3 Trims Mode Operation

For each assigned display, rotate the upper control under that display to change the input level. Rotate the lower control to change the output level. Rotating a control one notch in either direction will display the current level. Further rotation will change the level.

6.4. PAP Mode Asignments and Operation

6.4.1 General

In PAP mode, you setup IFB's and then adjust the level from the defined program input to the defined IFB output.

6.4.2 PAP Mode Assignments

1. Run ADAMedit or Zeus-edit and define the output port for each IFB that you want to setup, then send your changes to the intercom system. (To get help on this topic, click the IFB button on the ADAMedit or Zeus-edit toolbar, then press the F1 key on the computer keyboard.)

☞ For each IFB, you can define or change the input port either from the intercom system configuration software or from the LCP-102, but you must always define the output port first using the intercom system configuration software.

2. Place the LCP-102 in PAP mode as previously described. See "Panel Mode Selection".

3. Select one of the four setup pages as previously described. See "Page Select".

4. Select one of the 16 assignable displays that is currently unused. Double-click either control below that display to enter IFB assign mode, then rotate the control to scroll through the list of IFB's. When you locate the desired IFB, click the control once to assign it to the display.

☞ If you already assigned the input port for the IFB using the intercom system configuration software you can skip steps 5 and 6.

5. With the display showing the name of the IFB, click either control to enter input port assignment mode. The scroll list of intercom ports should appear in the display.

6. Rotate the upper control to select the intercom port where the program source for the IFB is connected. Click the control to assign the selected port. The display will again show the IFB name, and the IFB should now be completely setup.

7. Repeat these steps to make further assignments.

8. To cancel an assignment, click either of the assignment's controls. The display will go blank. Click the control once more, and the display will return to showing dashes, indicating no assignment.

6.4.3 PAP Mode Operation

To change the program level, simply rotate either control. Rotating the control one notch in either direction will display the current level. Further rotation will change the level.

6.5. CDP Mode Assignments and Operation

6.5.1 General

In CDP mode, you use each display and its controls to assign one intercom port to any party line. Then during operation you can adjust the level at which that port hears the party line audio.

6.5.2 CDP Mode Assignments

1. Select CDP mode as previously described. See "Panel Mode Selection"

2. Select a setup page as previously described. See "Page Select".

3. Select one of the 16 assignable displays that is currently unused. Double-click either control below that display to access the scroll list of intercom ports.

4. Rotate the control to locate the intercom port that you want to assign to a party line, then click the control once to select the port.

5. Click the control again to access the party line scroll list.

6. Rotate the control to locate the party line to which you want to assign the intercom port, then click the control. This will assign the port to the party line as a talker and listener, and the name of the port will reappear in the display.

7. Repeat these steps to make further assignments.

8. To cancel an assignment, click either of the assignment's controls. The display will go blank. Click the control once more, and the display will return to showing dashes, indicating no assignment.

6.5.3 CDP Mode Operation

To change the listen level for a port, rotate either control. Rotating the control one notch in either direction will

display the current level. Further rotation will change the level.

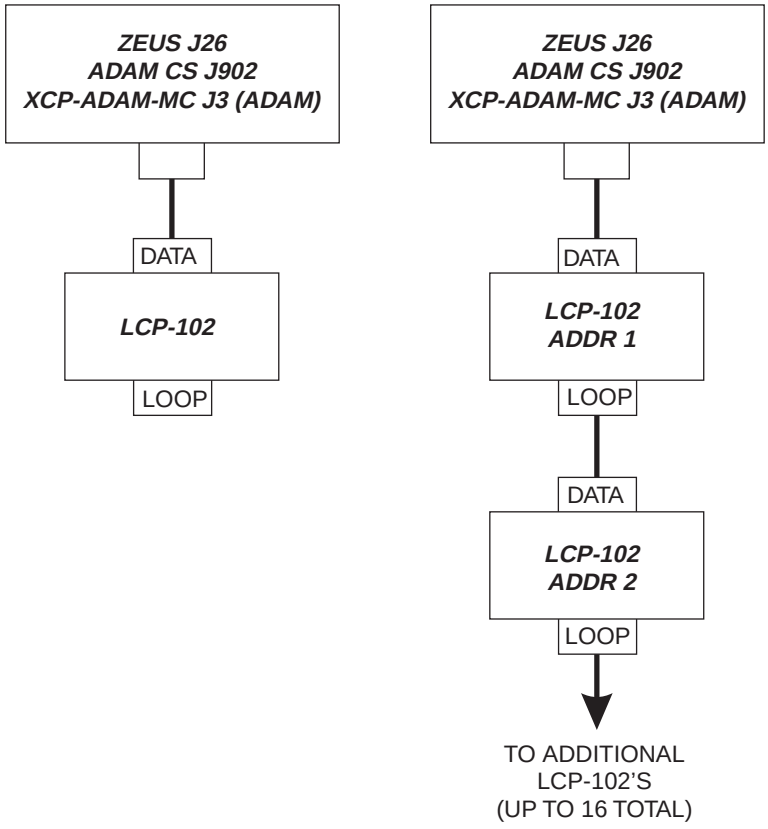
To display the party line to which a port is assigned, click either control once. The party line name will display for about 4 seconds, then the port name will reappear.

6.6. Saving Configuration Changes

The settings for address, current panel mode and current setup page are saved in the LCP-102 and will be retained if the power is turned off.

All display assignments and level settings are uploaded to the intercom system and become part of the on-line configuration. This configuration will be retained if there is a loss of power to the intercom system. However, if you wish to have a backup copy of your settings, save the settings to disk using your intercom system configuration software.

CONNECTIONS FOR A SINGLE LCP-102 OR MULTIPLE LCP-102'S



TWO METHODS FOR CONNECTING A UIO-256 WITH THE LCP-102
UP TO THREE MORE UIO-256 FRAMES MAY BE CONNECTED TO THE FIRST UIO-256 IN A RING CONFIGURATION AS ILLUSTRATED IN THE UIO-256 MANUAL

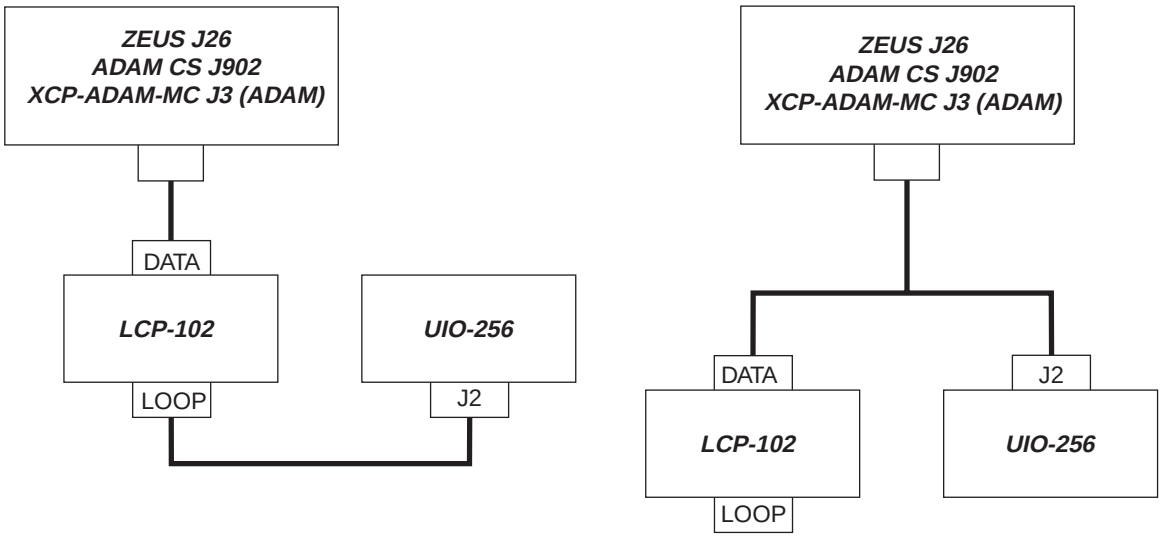


Figure 2. Typical connection methods for the LCP-102

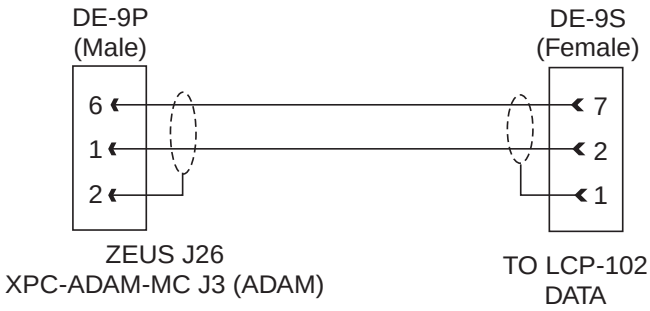


Figure 3. Interconnect cable from a Zeus or ADAM Intercom System to the LCP-102

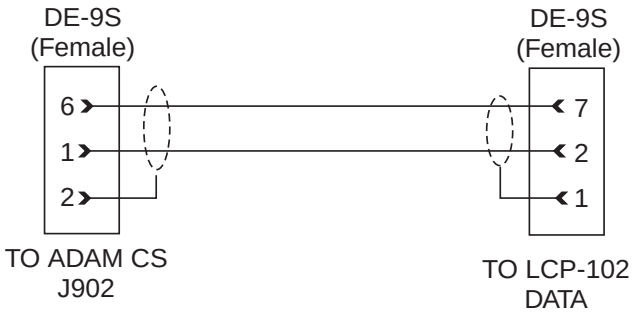


Figure 6. Interconnect cable from an ADAM CS Intercom System to the LCP-102

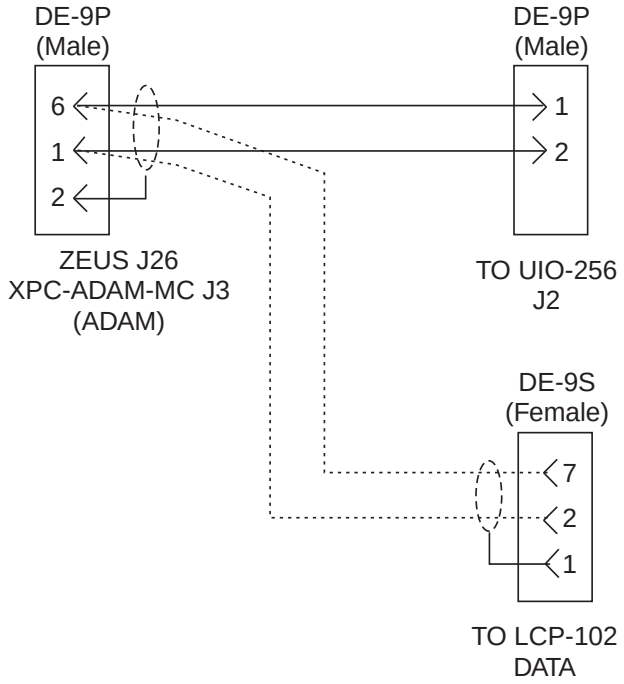


Figure 4. "Y" cable for connection of an LCP-102 and a UIO-256 to a Zeus or ADAM Intercom System

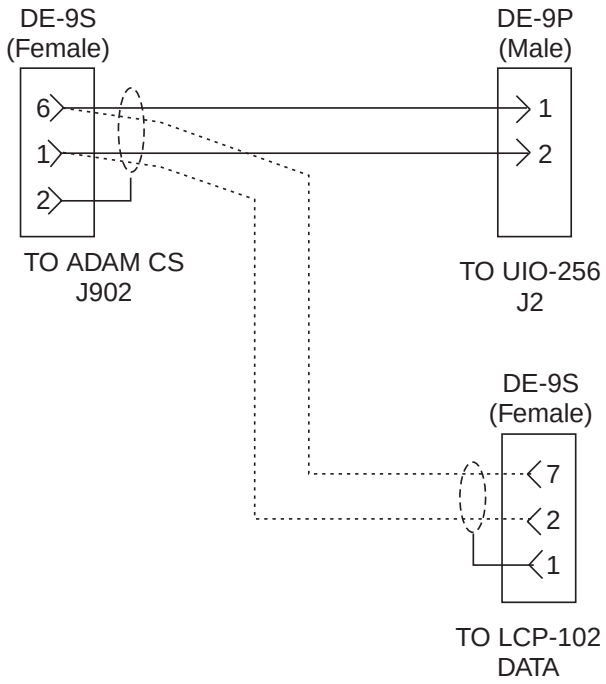


Figure 7."Y" cable for connection of an LCP-102 and a UIO-256 to an ADAM CS Intercom System

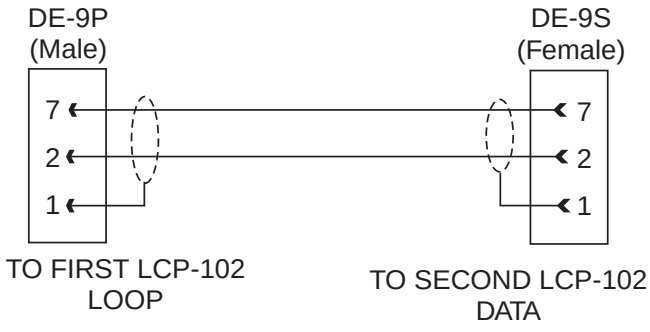


Figure 5. Cable to interconnect two LCP-102's (All intercom systems)

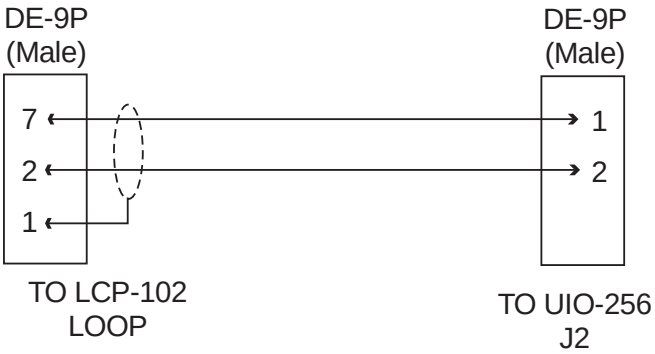


Figure 8. Cable to connect a UIO-256 to the LCP-102 (All intercom systems)