

UDACT-300A

Digital Alarm Communicator Transmitter

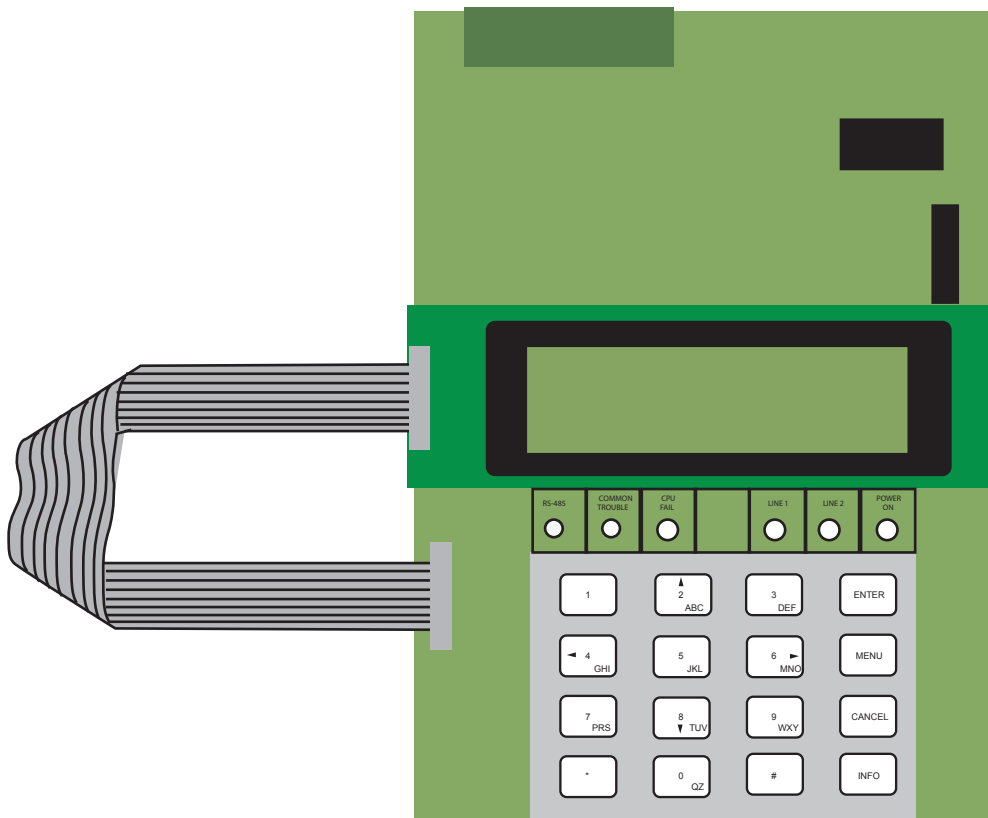


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Industry Canada and FCC Notice

Notice for all UDACTs Sold in Canada

Mircom's *UDACT-300A Digital Communicator* described in this manual is listed by Underwriters Laboratories Canada (ULC) for use in slave application in conjunction with a Listed Fire Alarm Control Panel under Standard ULC-S527 (Standard for Control Units for Fire Alarm Systems) and ULC/ORD-C693-1994 (Central Station Fire Protective Signalling Systems and Services). These Communicators should be installed in accordance with this manual; the Canadian / Provincial / Local Electrical Code; and/or the local Authority Having Jurisdiction (AHJ).

Industry Canada Notice

Repairs to certified equipment should be made by an authorized Canadian maintenance facility designated by the supplier. Any repairs or alteration made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment. Users should ensure for their own protection that the **Earth Ground** connections of the power utility, telephone lines and internal metallic water pipe system, if present, are connected together. This is necessary both for proper operation and for protection.



NOTICE: This equipment meets the applicable Industry Canada Terminal Equipment Technical Specifications. This is confirmed by the registration number. **IC: 1156A-UD300A** The abbreviation, IC, before the registration number signifies that registration was performed based on a Declaration of Conformity indicating that Industry Canada technical specifications were met. It does not imply that Industry Canada approved the equipment.

NOTICE: The Ringer Equivalence Number (REN) for this terminal equipment is **0.2**. The REN assigned to each terminal equipment provides an indication of the maximum number of terminals allowed to be connected to a telephone interface. The termination on an interface may consist of any combination of devices subject only to the requirement that the sum of the Ringer Equivalence Numbers of all the devices does not exceed five.

Notice for all UDACTs Sold in the U.S.A.



Note: The Ringer Equivalence Number (REN) for this product is 0.2

Mircom's *UDACT-300A Digital Communicator* described in this manual is listed by Underwriters Laboratories Inc. (ULI) under Standard 864 (Control Units for Fire Protective Signaling Systems). These Communicators comply with the National Fire Protection Association (NFPA) performance requirements for DACTs and should be installed in accordance with NFPA 72 Chapter 4 (Supervising Station Fire Alarm System). These Communicators should be installed in accordance with this manual; the National Electrical Code (NFPA 70); and/or the local Authority Having Jurisdiction (AHJ).

FCC Notice

This equipment complies with the Federal Communications Commission (FCC) rules and regulations governing telephone equipment and the Technical Requirements for Connection to the Telephone Network published by the industry's Administrative Council for Terminal Attachments (ACTA). On the door of this equipment is a label that contains, among other information, a product identifier in the format **US:1M8AL02BUDACT300A**. If requested, this number must be provided to the telephone company. This equipment is capable of seizing the line. This capability is provided in the hardware.

The Ringer Equivalence Number (REN) assigned to each terminal device provides an indication of the maximum number of devices that may be connected to a telephone line. Excessive REN's on a telephone line may result in the devices not ringing in response to an incoming call. In most, but not all areas, the sum of REN's should not exceed five (5.0). To be certain of the number of devices that may be connected to a line, as determined by the total REN's contact the local telephone company. **The REN for this product is 0.2**

Telephone Company Procedures: The goal of the telephone company is to provide you with the best service it can. In order to do this, it may occasionally be necessary for them to make changes in their equipment, operations or procedures. If these changes might affect your service or the operation of your equipment, the telephone company will give you notice, in writing, to allow you to make any changes necessary to maintain uninterrupted service.

In certain circumstances, it may be necessary for the telephone company to request information from you concerning the equipment which you have connected to your telephone line. Upon request of the telephone company, provide the FCC registration number and

the ringer equivalence number (REN); both of these items are listed on the equipment label. The sum of all of the REN's on your telephone lines should be less than five in order to assure proper service from the telephone company. In some cases, a sum of five may not be usable on a given line.

If Problems Arise: If any of your telephone equipment is not operating properly, you should immediately remove it from your telephone line, as it may cause harm to the telephone network. If the telephone company notes a problem, they may temporarily discontinue service. When practical, they will notify you in advance of this disconnection. If advance notice is not feasible, you will be notified as soon as possible. When you are notified, you will be given the opportunity to correct the problem and informed of your right to file a complaint with the FCC. Contact your telephone company if you have any questions about your phone line. In the event repairs are ever needed on the Communicator, they should be performed by Mircom Technologies Ltd. or an authorized representative of Mircom Technologies Ltd. For information contact Mircom Technologies Ltd. at the address and phone numbers shown on the back page of this document.

Introduction and Features

UDACT-300A is a single board Digital Communicator that can connect to a Mircom Fire Alarm Control Panel (FACP) such as FA-1000, FX-2000 and FleX-Net™, via an RS-485 data link and common relay connection on a single ribbon cable. It can transmit Zoned Alarm, Supervisory and Trouble information on two telephone lines to a Digital Alarm Communicator Receiver (DACR).

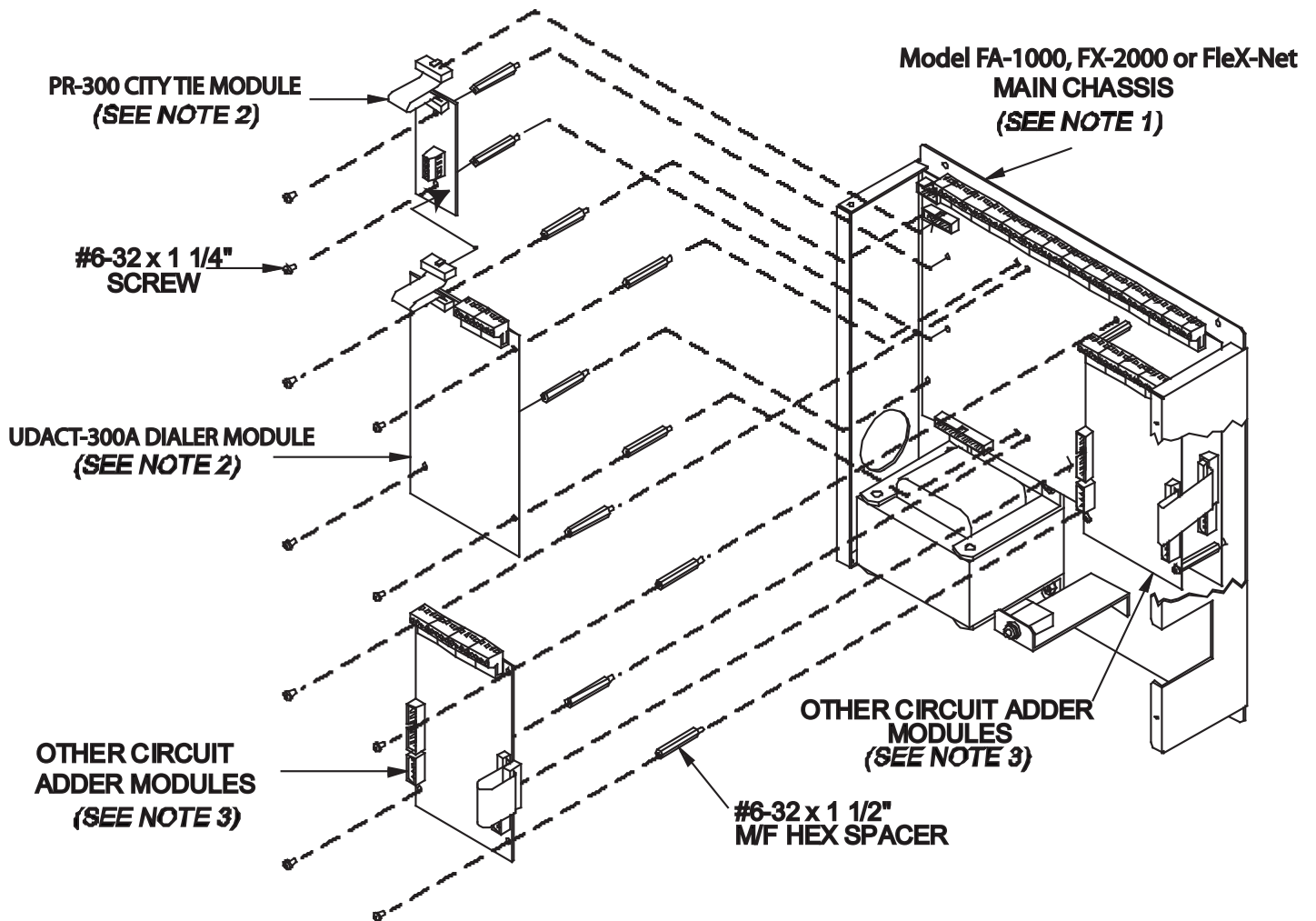
Features:

- Receives events from the FACP via an RS-485 data link and common relay connection.
- Communicates to a DACR using **Ademco Contact ID** or **SIA DCS** reporting protocols (300 baud or 110 baud rate).
- The UDACT-300A has the ability of disconnecting the incoming and outgoing calls and capturing the line for transmission to the DACR.
- Provides telephone line monitoring and reports status via LED indication on-board, yellow for trouble and red for dialing out.
- User configurable locally by on-board keypad and a **CFG-300 Configuration Tool** or using a **UIMA** and computer with serial port or USB. Remotely configurable via a Personal Computer modem.
- Provides event logs of 500 entries each to save events from local dialer or remote fire alarm panel. These logs can be reviewed locally with CFG-300 Configuration Tool or remotely via modem.

Mechanical Installation and Dimensions

The **UDACT-300A** board is a single PCB assembly, which is a replacement for the UDACT-100A. Any reference pertaining to the UDACT-100A regarding mechanical mounting can be adhered to. Its mechanical installation is determined by the Fire Alarm Control Panel (FACP) it will be installed in, and is described in the appropriate FACP Installation Manual. Figure 1 below shows the mechanical installation for an FX-2000, FleX-Net™ or FA-1000 FACP.

Figure 1: UDACT-300A Mechanical Installation



Notes:

1. Front plate is not shown.
2. Reserved for PR-300 and UDACT-300A
3. Other circuit adder modules may be:
 - DM-1008A Detection Circuit Adder Module
 - SGM-1004A Signal Circuit Adder Module
 - RM-1008A Relay Circuit Adder Module
 - ALC-198S LOOP ADDER MODULE
 - ALC-396S or ALCN-396S DUAL LOOP ADDER MODULES
 - ALC-H16 HARDWIRE LOOP CONTROLLER MODULE

Connections and Settings

UDACT-300A MAIN BOARD:

There are two jumpers on the UDACT-300A which are used for operation/configuration purposes. Jumper JW1 is used to reset the default passcode. Jumper JW2 is required for configuring the UDACT-300A. Refer to the **Figure 2** for location of jumpers, cable connections, pushbutton and LEDs. Table 1 following, provides a description of the user items on the UDACT-300A.

Figure 2: UDACT-300A Board Layout

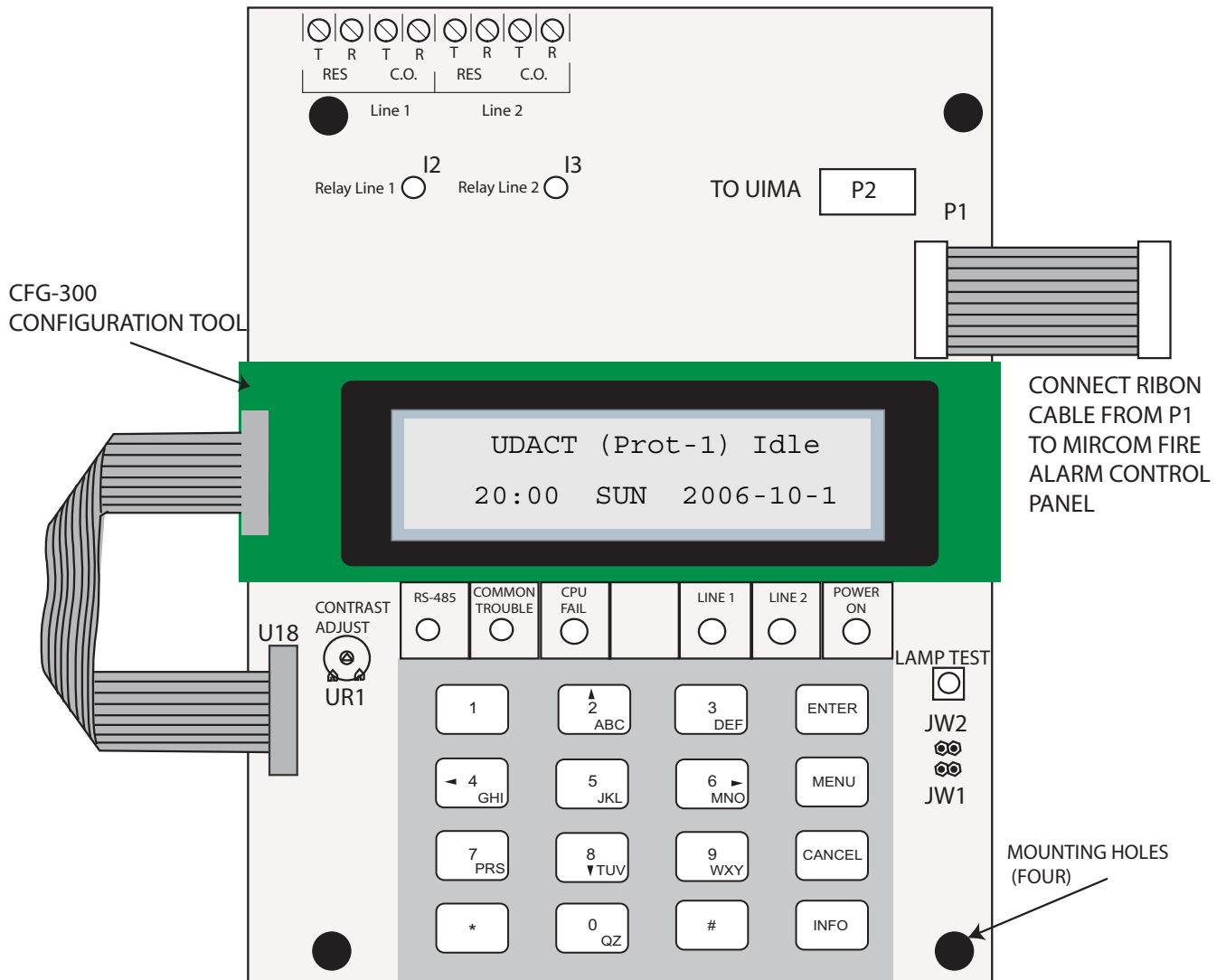


Table 1: Cable Connectors and Miscellaneous

Cable Connector	Function
P1	Ribbon Cable for connecting to Mircom Fire Alarm Control Panel (FACP)
P2	RS-232C/RS-485 Connection for computer configuration.
U18	Connector for CFG-300 Configuration Tool
Lamp Test button	Press and hold this button to test all the UDACT-300A LEDs and LCD display
UR1 Potentiometer	This potentiometer is for adjustment of the CFG-300 LCD contrast.

The following table lists all the LEDs located on the UDACT-300A board and states the function of each LED.

Table 2: UDACT-300A List of LEDs and their Functions

LEDs	FUNCTION
Relay Line 1	Located below Line 1 terminal block. When Line 1 relay is energized, this green LED will illuminate
Relay Line 2	Located below Line 2 terminal block. When Line 2 relay is energized, this green LED will illuminate.
RS-485	Status LED for communication, will flash when RS-485 communication is active.
Common Trouble	Steady amber for any troubles on the Fire Alarm panel or UDACT-300A.
CPU Fail	Steady amber for any on board CPU trouble.
Telephone Line 1	Telephone status indicator LED; Red when the line is in use, Amber when there is a line trouble.
Telephone Line 2	Telephone status indicator LED; Red when the line is in use, Amber when there is a line trouble.
Power ON	Green LED is ON steady when power is supplied to the board.

The following table lists the user jumpers available on the UDACT-300A and their functions.

Table 3: UDACT-300A List of Jumpers for Operation and Configuration

JUMPER NUMBER	JUMPER FUNCTIONS
JW1	Normally open. Place jumper here and power down the UDACT-300A by disconnecting P1 or power down the fire alarm panel (AC and Batteries), then power back to revert to default passcode. After reset, remove the jumper. Leave normally open.
JW2	Normally open to BLOCK remote configuration via modem, PC with a UIMA converter module or using the LCD and keypad at the UDACT-300A. Place jumper here to ALLOW any type of configuration. Remove jumper once configuration is complete.

Field Wiring

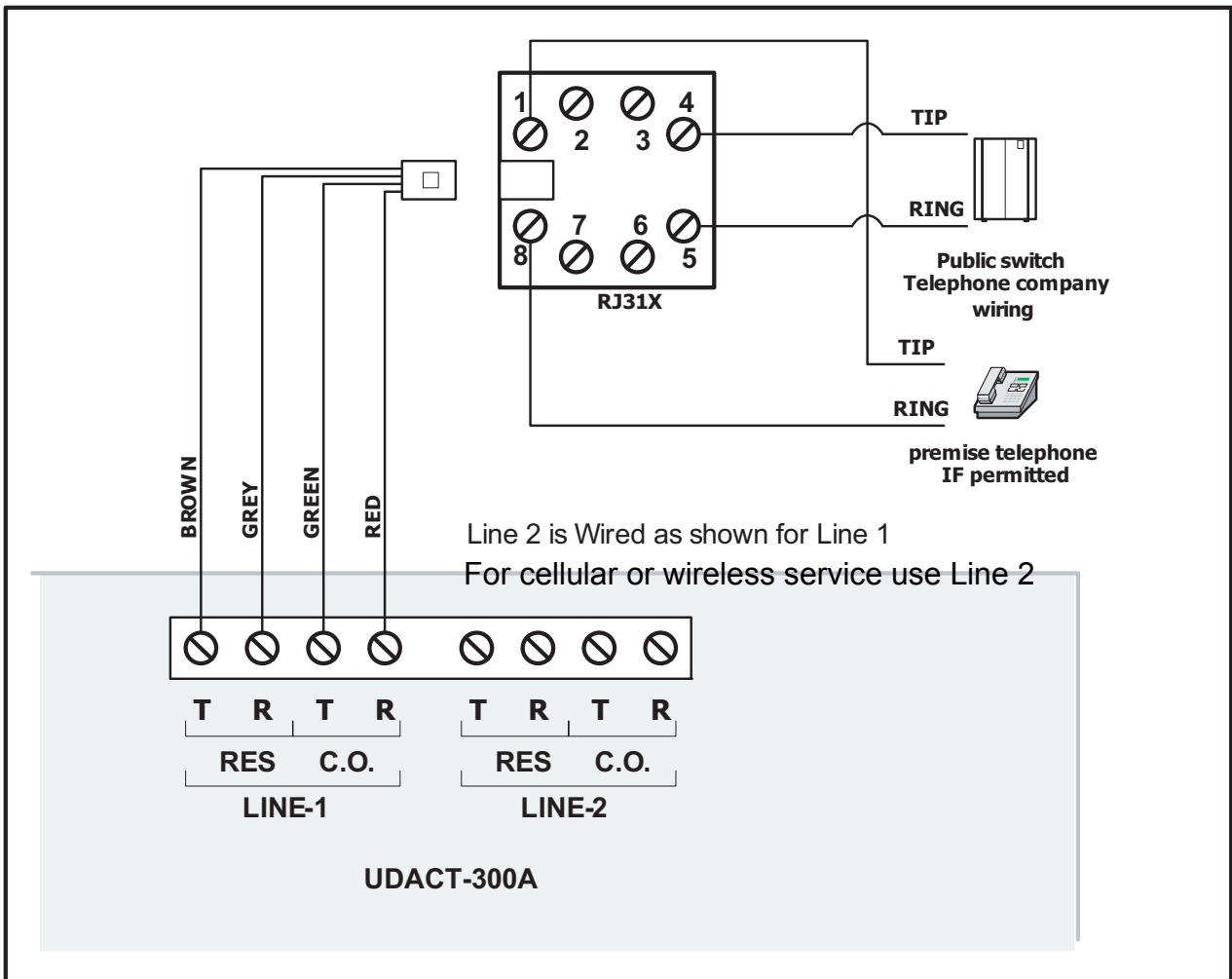
UDACT-300A MAIN BOARD TERMINAL CONNECTIONS:

Wire the two telephone lines to RJ31X Connector terminals as shown in Figure 3 below. The UDACT-300A terminals are located on the top left hand corner of the board. If using a cellular or wireless service, use the Line 2 interface connection only. Dialer will try to report using Line 2 first.



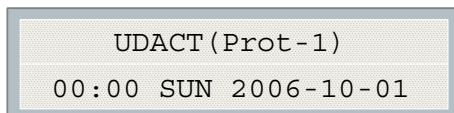
Note: Most Authorities Having Jurisdiction (AHJ) do not allow the connection of premise telephones. see specifications for more information.

Figure 3: Telephone Line Wiring Diagram



Power Up Procedures

1. UDACT-300A board should be securely mounted mechanically into a Mircom FA-1000, FX-2000 or FleX-Net™ Fire Alarm Panel.
2. Check that the telephone lines are connected as shown in Figure 3.
3. Connect cable from P1 on the UDACT-300A board to the Fire Alarm Control Panel. Connects to P2 for Mircom FA-1000 and P4 for the Mircom FX-2000 and FleX-Net™ Fire Alarm Control Panels.
4. Connect the CFG-300 Configuration Tool to the U18 connector and place over the mounting studs on the UDACT-300A above the keypad and secure. This CFG-300 Configuration Tool can be removed once configuration has been completed.
5. Power up the Fire Alarm Panel and the message on the CFG-300 Configuration Tool should be:



Basic Operation and Supervision

The UDACT-300A can receive events from the FACP through the RS-485 data link and the common relay connections on the PR-300 ribbon cable. It will always report events sorted in the order in which they are received/recognized. When the dialer buffer is full, all new incoming events will be ignored. While working in the UDACT mode, the detailed zone information (event code with zone number) will be reported to the monitoring station. The UDACT-300A also monitors the communication on the RS-485 between the FACP and itself. If the sum of the RS-485 data link errors within 24 hours exceeds the predefined threshold, a Communication Trouble with ID# 485 will be reported during the 24-hour periodic test. While working in the DACT mode, UDACT-300A scans the common relay connections from the FACP (including Common Alarm, Common Supervisory and Common Trouble relays) and reports the common status only.

The UDACT-300A is capable of reporting multiple events to a single account number, within a single call session. For a single event not yet reported, up to 4 retries will be made within a single call attempt. A failure to report to either or both accounts will generate corresponding events that will be queued for reporting. Once the UDACT-300A fails to report on all telephone lines, it stops retrying, but an Alarm Event, Manual Test or 24-hour Periodic Test will force the UDACT-300A to seize the line and try reporting again. For two regular Telco telephone line connections, the UDACT-300A checks each line operation by reporting the 24-hour periodic test result on Line #1 or Line #2 alternately.

The UDACT-300A continuously supervises the status of each of two connected Telco Lines at approximately 1 minute intervals. The regular line supervision includes DC voltage level validation and dial tone detection. Line supervision is skipped while (1) the dialer is busy reporting, (2) the modem is working or (3) there is ringing on the line. If the line supervision fails, a Line #1 or Line #2 Trouble will be reported after a 30 second verification. Once the line has been restored, a Line Trouble Restore will be reported.

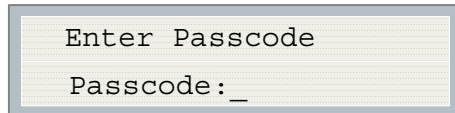
Configuration Setup

There are 3 ways of configuring the UDACT-300A.

1. Locally with the on-board keypad and CFG-300 Configuration Tool.
2. Locally with a Personal Computer via the RS-232 connection, a UIMA and Mircom Software MSW-012.
3. Remotely with a computer, modem and Mircom Software MSW-012.

CONFIGURATION VIA ON-BOARD KEYPAD:

1. Place jumper on JW2, located in the bottom right hand corner of the UDACT-300A board (this will generate a trouble on the UDACT-300A and report this to the receiver).
2. Press Menu on the keypad to enter the configuration menu and configure the UDACT-300A. The following screen will ask for the passcode.



3. Enter the default passcode, 1111.

See next section entitled Configuration & LCD Operation for further instructions on Configuration.

CONFIGURATION VIA a UIMA AND COMPUTER(LOCAL):

1. Set-up UIMA connection: the 10-pin cable connector of UIMA is connected to P2 on UDACT-300A board. A serial cable or USB cable is needed to connect the UIMA to the computer.
2. Place a jumper at JW2 on the UDACT-300A board to allow the configuration (a trouble is generated and reported to the receiver DACR).
3. Start the Mircom Software MSW-012 on the computer to configure the UDACT-300A. Follow the instructions of MSW-012 menu to complete the configuration of the UDACT-300A.
4. Remove jumper on JW2 after configuration is finished, otherwise a trouble will occur.

CONFIGURATION VIA MODEM AND COMPUTER(REMOTE):

1. Set-up the modem connection on the computer. Make sure the phone line is working properly.
2. Place a jumper at JW2 on the UDACT-300A board to allow the configuration (a trouble is generated and reported to the receiver DACR).
3. Start the Mircom Software MSW-012 on the computer to configure the UDACT-300A. Follow the instructions of MSW-012 menu to complete the configuration of the UDACT-300A.
4. Remove jumper on JW2 after configuration is finished, otherwise a trouble will occur.

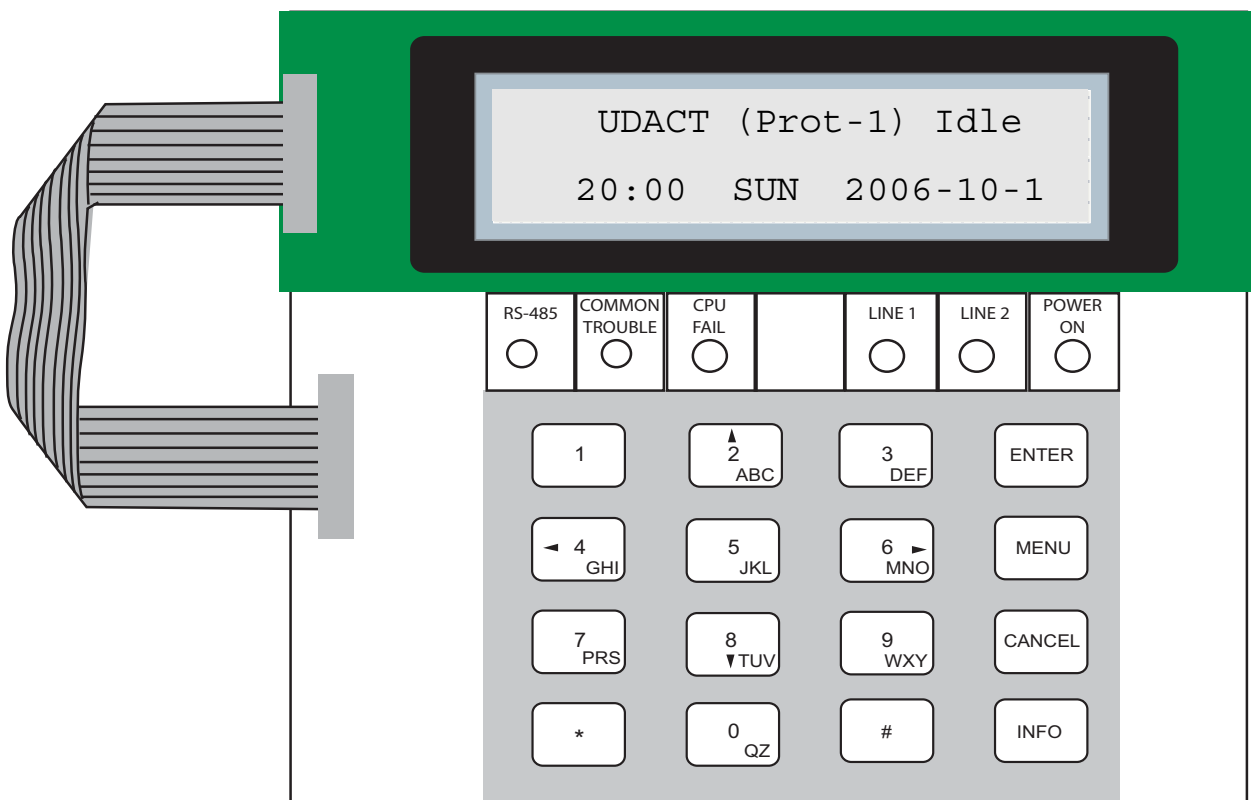
Configuration & LCD Operation

The following shows the configuration at the UDACT-300A using the keypad and the CFG-300 Configuration Tool. The Mircom Digital Communicator is configured by connecting the cable of the **CFG-300 Configuration Tool** to the U18 connector on the UDACT-300A Main Board and placing the LCD over the 3 standoffs as shown in Figure 2.

In order to configure the UDACT-300A, place a jumper on JW2, remove once configuration is complete otherwise there will be a trouble message.

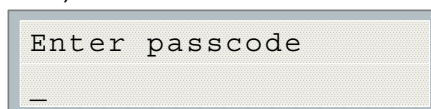
To access configuration mode press the Menu button on the front panel display. The CFG-300 LCD will display the Main Menu. The keypad on the UDACT-300A board and the CFG-300 is shown together in Figure 4, below.

Figure 4: UDACT-300A Configuration



Entering the Passcode

The programming section is passcode protected. The following image shows the message that is displayed to enter the passcode. The minimum number of digits allowed is four and the maximum allowable passcode is ten digits long; numerical values only. Press the "ENTER" key after entering the passcode. If the passcode is correct, it will take you to the main command menu. If the passcode is incorrect, the system will ask you to re-enter the passcode. The system will be exhausted after three retries and will then take you back to the Normal message display. The default passcode is "1111" (without quotes).

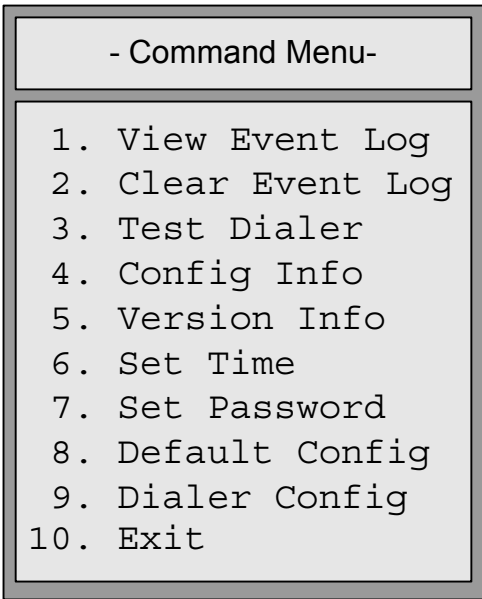


After you select a feature item by pressing the "ENTER" key, use the "UP" and "DOWN" keys to move through the different features. Use the "LEFT" and "RIGHT" keys to change the values. **To confirm the changes press the "ENTER" key.** To go one level back press the "CANCEL" key.

Command Menu

The main command menu is pictured below. The first line of the LCD will always show "-Command Menu-", and the second line displays the different selections. Use the "UP" and "DOWN" keys to move through the menu, and press the "ENTER" key to make a selection. To exit from the main command menu, press "CANCEL" or select the "Exit" menu option and then press the "ENTER" key

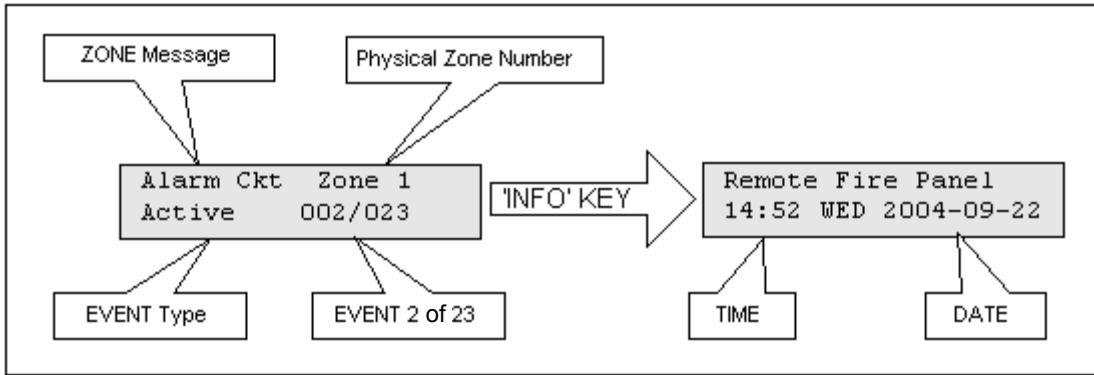
Note: Command Menu feature 9 can only be accessed if jumper JW2 is placed on the main board, see Table 3.



1. View Event Log

<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <p style="text-align: center;">-View Event Logs-</p> <ol style="list-style-type: none"> 1 Remote Log 2 Local Log </div> <p>Select the type of log to view. Press the "ENTER" key. The system will then show the log chosen.</p>	<p>Use this function to select the log to view. Either the local or remote log. The remote log contains all events associated with the fire alarm panel. The local log contains all events associated with the UDACT-300A. Each log can hold up to 500 events.</p>
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Pressing the “INFO” key provides more information about the displayed event. The illustration below provides an example of how the “INFO” key works.



There are a maximum of 500 recent events saved in the event log. If the number of events goes beyond 500, all new incoming events will be ignored.

2. Clear Event Log (Command-Menu)

<pre> -Clear Log- 1 Remote Log 2 Local Log 3 All Logs </pre> <p>Select the type of log to clear. Press the “ENTER” key. The system will then confirm before clearing logs.</p> <pre> Clear all the selected log(s)? Y </pre> <p>Press the “ENTER” key to confirm or the “CANCEL” key to cancel the operation.</p> <pre> Log(s) cleared </pre>	<p>Use this function to clear remote logs, local logs, or both. The remote log contains all events associated with the fire alarm panel. The local log contains all events associated with the UDACT-300A at the panel. Each log can hold up to 500 events.</p>
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3. Test Dialer (Command-Menu)

<pre> -Dialer Test- 1. L#1 Manual test 2. L#2 Manual test 3. Reset Dialer </pre>	<pre> 1.L#1 Manual test </pre>	<p>Press Enter to test Line #1. Press Cancel to exit this menu. For a description of test messages, see <i>Dialer Test Messages</i> on the following page.</p>
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2.L#2 Manual test	Press Enter to test Line #2. Press Cancel to exit this menu. For a description of test messages, see <i>Dialer Test Messages</i> on the following page.
3.Reset Dialer	This feature flushes all reportable events from the buffer, clears all dialer troubles and resets the dialer operation. Press Enter to reset the dialer. Press Cancel to exit this menu.

Dialer Test Messages

The following messages will display during the test processes of Lines #1 and #2. The messages that will appear depend on the status of the dialer and the test results that are found.

Dialer idle now	The dialer is checking the line for voltage. This message automatically displays when Manual Test is selected.
No DC Volt	No DC line voltage. The line is dead or no phone line is connected or the phone line operates at abnormal voltage.
Waiting for Dialtone	The dialer is waiting for a dial tone.
Failed: No Dialtone	This message may indicate a noisy telephone line.
Dialing Receiver Now	The dial tone was detected and telephone number dialing is in process.
No DTMF tone	This message indicates that the dialer failed to send a DTMF tone.
Waiting for Acktone	Waiting for availability of the receiver. The receiver confirms the availability by sending an Ack tone.
Failed No Acktone	Dialer failed to detect Ack tone. This message indicates that either the telephone number may be wrong or the receiver is not available.
Reporting Event Now	Sending events to the receiver.

<p>Waiting for Kissoff</p>	<p>The dialer is waiting for the Kissoff tone. The Kissoff tone indicates that the receiver has received the event reports.</p>
<p>No Kissoff</p>	<p>No Kissoff means dialer did not detect Kissoff tone.</p>
<p>Passed: Manual test</p>	<p>The line passed the test; everything is OK.</p>

4. Config Info (Command-Menu)

<p>Configuration type: Factory default</p>	<p>Configuration type will show how the panel was configured. "Factory default" means the panel has not been configured, it is as it came from the factory. "Front Panel" means it was configured at the panel. "Serial Port" means the configuration was done from a computer through the serial port. "Modem" means the configuration was completed remotely through a modem.</p>
<p>Job Name: No job loaded</p>	<p>If you upload a job configuration to the panel using the PC configuration utility, the job name will appear on this screen. The job name can be up to a maximum of 20 characters.</p>
<p>Technician ID: Unknown</p>	<p>If you upload a job configuration to the panel using the PC configuration utility, the technician's name (ID) will appear on this screen. The technician ID can be up to a maximum of 10 characters.</p>
<p>Cfg. Date and Time: hh:mm day year:mm:dd</p>	<p>Configuration date and time will appear for all means of configuration, thus revealing date and time configuration was last changed.</p>
<p>Cfg. Tool S/W Vers.: Version:x.x.x.x</p>	<p>This specifies the configuration tool version. It will display 0.0.0.0 if no PC configurator has been used.</p>

5. Version Info

<p>S/UDACT-300A</p>
<p>Version 1.0.1</p>

The first line shows the model number and panel type and the second line shows the software version number. The version of the software is read as Major.Minor.Revision. The display will remain for 10 seconds.

6. Set Time (Command-Menu)

1 Daylight Save
2 Time Clock
3 Compensation

<p>Command Menu/Set Time 1. Daylight saving time</p> <div data-bbox="175 525 607 630" style="border: 1px solid black; padding: 5px;"> <p>Daylight Saving [X] DISABLE</p> </div>	<p>[X] DISABLE ->Default [] ENABLE</p>	<p>Use this function to enable daylight savings time.</p>
<p>Command Menu/Time Clock 2. Set time and date</p> <div data-bbox="175 726 607 831" style="border: 1px solid black; padding: 5px;"> <p>HH:MM WKD YYYY-MM-DD 00:00 MON 2000-01-01</p> </div>	<p>Default 00:00 MON 2000-01-01</p>	<p>Use this function to set the time and date. Use the "LEFT" and "RIGHT" keys to move the cursor to the desired location in the display and use the "UP" and "DOWN" keys to increase or decrease the values. Press the "ENTER" key to accept the changes and the "CANCEL" key to ignore the changes. Note: time is in 24hr format. The UDACT will update time and date automatically in conjunction with the FX-2000 and Flex-Net™</p>
<p>Command Menu/Time Clock 3. Compensation</p> <div data-bbox="175 1335 607 1440" style="border: 1px solid black; padding: 5px;"> <p>Daily Compensation: 0</p> </div> <p>Once the compensation value is entered the display will be:</p> <div data-bbox="175 1524 607 1629" style="border: 1px solid black; padding: 5px;"> <p>Daily Compensation: Panel Config Updated</p> </div>	<p>Compensation value can range from -15 to +15 seconds.</p>	<p>Use the up down arrow keys to select daily compensation value and press ENTER. For a fast clock adjust negatively. For a slow clock adjust positively. For example: for a clock which runs 5 minutes a month (based on 30 days) fast select -10 seconds.</p>

7. Set Password (Command-Menu)

<i>Command Menu/Set Password</i>		
<pre>Enter new passcode _</pre>		
<pre>Re-enter passcode _</pre>		
<p>If the passcode does not match, the following message appears and the system exit to the main menu</p>	<p>1111 -> Default</p>	<p>Use this function to change the passcode. The minimum number of digits is 4 and the maximum number is 10. ONLY numeric digits are allowed.</p>
<pre>invalid passcode</pre>		
<p>If the passcode is OK the following message appears and exits to the main menu</p>		
<pre>Passcode updated</pre>		

8. Default Config (Command-Menu)

<i>Command Menu/Default Config</i>		
<pre>Load the default settings? Y</pre>		
<p>Press "UP" and "DOWN" to select between Y/N. if "ENTER" is pressed the default configuration is restored.</p>	<p>Use this function to load the default configuration in the panel.</p>	<p>Warning: By loading default configuration all the previously programmed configuration is lost permanently.</p>
<pre>Default settings have been loaded</pre>		

9. Dialer Config (Command-Menu):

The following illustration shows the dialer configuration menu. Each item in this menu is described below in detail. Use the Up and Down keys to scroll through the menu and press the Enter key to make a selection. To exit from the menu, select the Exit menu option and then press either the Enter or Cancel key. Once a menu feature has been selected, use the Left and Right keys to change values or the numerical keys to enter account numbers.

```

- Dialer Config -
1 Account Info
2 Telephone Line
3 Report Options
4 Time Parameter
5 Enable/Disable
6 Ring Detection

```

1. Account Info Menu

```

- Account Info -
1 Account#1 ID
2 Account#1 Tel
3 Accnt#1 Format
4 Account#2 ID
5 Account#2 Tel
6 Accnt#2 Format

```

<p><i>Command Menu/Dialer Config/Account Info</i></p> <p>1.Account# 1 Identification</p> <pre> Account#1 ID: 123456 </pre>	<p>123456 ->Default</p>	<p>Use this function to set the Account ID for the monitoring station to which the dialer reports events. The maximum number of digits allowed is six. For contact ID, only the first four digits are used; the last two are truncated.</p> <p>If you are using the Contact ID protocol, the allowed digits for the account ID are simple digits 0 to 9 and hexadecimal digits A to F. The SIA protocol only allows digits 0 to 9.</p> <p>To enter hexadecimal digits, press the INFO button. The letter "A" will appear. To scroll through the rest of the letters, press INFO repeatedly. Press # key to move the cursor to the right or press * key to move it to the left.</p>
<p><i>Command Menu/Dialer Config/Account Info</i></p> <p>2.Account#1 Telephone Number</p> <pre> Account#1 Telnum: 101 </pre>	<p>101 ->Default</p>	<p>Use this function to set the telephone number of the monitoring station. The maximum number of digits allowed is 19 including commas "," and numerals. The commas will be treated as 1 sec delay. To enter a comma ",", press the INFO button. Press the # key to move the cursor to the right or press the * key to move it to the left. An example of a typical telephone number is 9,,1234567008, 9 being the dial out where required.</p>

<p><i>Command Menu/Dialer Config/Account Info</i> 3.Account#1 Reporting Format</p> <pre> ACCNT#1 Format: [X] Contact ID </pre>	<p><input checked="" type="checkbox"/> CONTACT ID-Default <input type="checkbox"/> SIA 300 Baud <input type="checkbox"/> SIA 110 Baud</p>	<p>Set the reporting format that is recognized or preferred by the monitoring station.</p>
<p><i>Command Menu/Dialer Config/Account Info</i> 4. Account# 2 Identification</p> <pre> Account#2 ID: 654321 </pre>	<p>654321->Default</p>	<p>Same as Account#1.</p>
<p><i>Command Menu/Dialer Config/Account Info</i> 5.Account# 2 Telephone Number</p> <pre> Account#2 Telnum: 101 </pre>	<p>101 ->Default</p>	<p>Same as Account#1.</p>
<p><i>Command Menu/Dialer Config/Account Info</i> 6.Account# 2 Reporting Format</p> <pre> ACCNT#2 Format: [X] Contact ID </pre>	<p><input checked="" type="checkbox"/> Contact ID->Default <input type="checkbox"/> SIA 300 Baud <input type="checkbox"/> SIA 110 Baud</p>	<p>Same as Account#1.</p>

2. Telephone Line Menu

```
- Telephone Line -
1 Line1 Dialtype
2 Line2 Dialtype
3 Line1 Dialtone
4 Line2 Dialtone
5 Num of Retries
```

<p>Command Menu/Dialer-Config/Telephone Line 1. Line#1 Dialing Type</p> <pre>Line#1 Dialing Type: [X] DTMF Dial</pre>	<pre>[X] DTMF Dial->Def [] Pulse Dial</pre>	<p>Set the dialing type for line #1 DTMF is the type recognized or preferred by the telephone company.</p>
<p>Command Menu/Dialer-Config/Telephone Line 2. Line#2 Dialing Type</p> <pre>Line#2 Dialing Type: [X] DTMF Dial</pre>	<pre>[X] DTMF Dial->Def [] Pulse Dial</pre>	<p>Same as Line#1.</p>
<p>Command Menu/Dialer-Config/Telephone Line 3. Line#1 wait for Dial tone</p> <pre>Line#1 Wait Dialtone [X] ENABLE</pre>	<pre>[X] ENABLE ->Default [] DISABLE</pre>	<p>Use this function to let the system know whether or not to wait for a dial tone before dialing.</p>
<p>Command Menu/Dialer-Config/Telephone Line 4.Line#2 wait for Dial tone</p> <pre>Line#2 Wait Dialtone [X] ENABLE</pre>	<pre>[X] ENABLE ->Default [] DISABLE</pre>	<p>Same as Line#1. When a wireless or cellphone service is employed, it could be connected with Line2 interface only. The dial-tone detection should be disabled.</p>
<p>Command Menu/Dialer-Config/Telephone Line 5.Number of retries</p> <pre>Number of Retries: 06</pre>	<pre>06 ->Default</pre>	<p>Set the number of retries for both line#1 and line#2. This function lets the dialer retry on either line if it is busy or not available. If the retry count expires, the panel reports a line trouble.</p>

3. Report Options Menu

```
- Report Options -
1 Alarm Prio.
2 Trouble Prio.
3 Supv. Priority
4 Ignore Supervisory
5 Protocol
6 Operation Mode
7 Checksum Bits
8 Event Number
9 Output Offset
```

<p><i>CommandMenu/Dialer-Config/Report Options</i> 1.Alarm priority</p> <pre>Alarm Priority: [X] Account 1</pre>	<pre>[X] Account 1->Def [] Account 2</pre>	<p>Use this function to set the account priority for reporting alarms. If the priority is set for account#1 then the dialer will try account#1 first for reporting.</p>
<p><i>CommandMenu/Dialer-Config/Report Options</i> 2.Trouble priority</p> <pre>Trouble Priority: [X] Account 1</pre>	<pre>[X] Account 1->Def [] Account 2</pre>	<p>Use this function to set the account priority for reporting trouble. If the priority is set for account#1 then the dialer will try account#1 first for reporting.</p>
<p><i>CommandMenu/Dialer-Config/Report Options</i> 3.Supervisory priority</p> <pre>SUPV Priority [X] Account 1</pre>	<pre>[X] Account 1->Def [] Account 2</pre>	<p>Use this function to set the account priority for reporting supervisory troubles. If the priority is set for account#1 then the dialer will try account#1 first for reporting.</p>
<p><i>Command Menu/Dialer-Config/Report Options</i> 4.Ignore Supervisory</p> <pre>Ignore Supervisory [X] Disable</pre>	<pre>[] ENABLE [X] DISABLE->Default</pre>	<p>If this function is enabled, the UDACT-300A will bypass all supervisory event reporting.</p>
<p><i>Command Menu/Dialer-Config/Report Options</i> 5.Protocol type</p> <pre>Protocol: [X] Level 1</pre>	<pre>[] Level 0 [X] Level 1(Default) [] Level 2 [] Level 1-G</pre>	<p>Change this function as required for appropriate fire alarm panel. Level 1 is the FA-1000, Level 2 is the FX-2000 and Flex-Net™ and Level 0 and 1-G are not used.</p>
<p><i>Command Menu/Dialer-Config/Report Options</i> 6.Dialer operation mode</p> <pre>Dialer Oper. Mode: [X] (U) DACT</pre>	<pre>[X] (U) DACT ->Default [] DACT [] ZDACT (zoned DACT. A zone is defined as a group of inputs. Grouped input zones are defined using the computer software configurator only.)</pre> <p>ZDACT functions for FX-2000 only</p>	<p>Use this function to select the functionality of the dialer. In DACT mode only common trouble/ alarm/supervisory are reported, while in UDACT mode all zone point information is reported. ZDACT mode is for grouped input zone reporting.</p>

<p>Command Menu/Dialer-Config/Report Options 7.Checksum Bits</p> <div style="border: 1px solid gray; padding: 5px; width: fit-content;"> <pre>Checksum Bits: [X] 8 Bits</pre> </div>	<pre>[X] 8 Bit->Default [] 16 Bits</pre>	<p>For FA-1000, choose 8 Bits.</p> <p>For FX-2000, if software version is 7.XXX series choose 8 Bits. If software version is 2.XX series, choose 16 Bits.</p> <p>For FleX-Net™ chose 16 bits.</p>
<p>Command Menu/Dialer-Config/Report Options 8.Event Number</p> <div style="border: 1px solid gray; padding: 5px; width: fit-content;"> <pre>Event Number Format: [X] Loop & Address</pre> </div>	<pre>[X] Loop & Address [] Ckt No</pre>	<p>Used to specify UDACT reporting information for FX-2000 non grouped inputs.</p> <p><u>Loop & Address</u> Five digits will be displayed for Loop and Address with first two digits (from the left) representing loop number and the next 3 digits representing the device address.</p> <p><u>Circuit Number</u> If circuit number is selected the UDACT will report only the input/output circuit number, five digits.</p> <p>Note: If inputs are grouped, only the group number will be reported by the dialer regardless of Event Number Format selection.</p>
<p>Command Menu/Dialer-Config/Report Options 9.Output Offset</p> <div style="border: 1px solid gray; padding: 5px; width: fit-content;"> <pre>Output Number Offset? _ _ _ _ _</pre> </div>	<pre>0 ->Default Can be set from 1 to 9999</pre>	<p>Used to offset the number of the outputs. i.e. if 1000 is chosen, then the first output will have address 1001, output 2 will be 1002, etc. The offset feature is available only if the event format (shown above) of circuit number is chosen. This offset function is available for FX-2000 and FleX-Net™ only.</p>

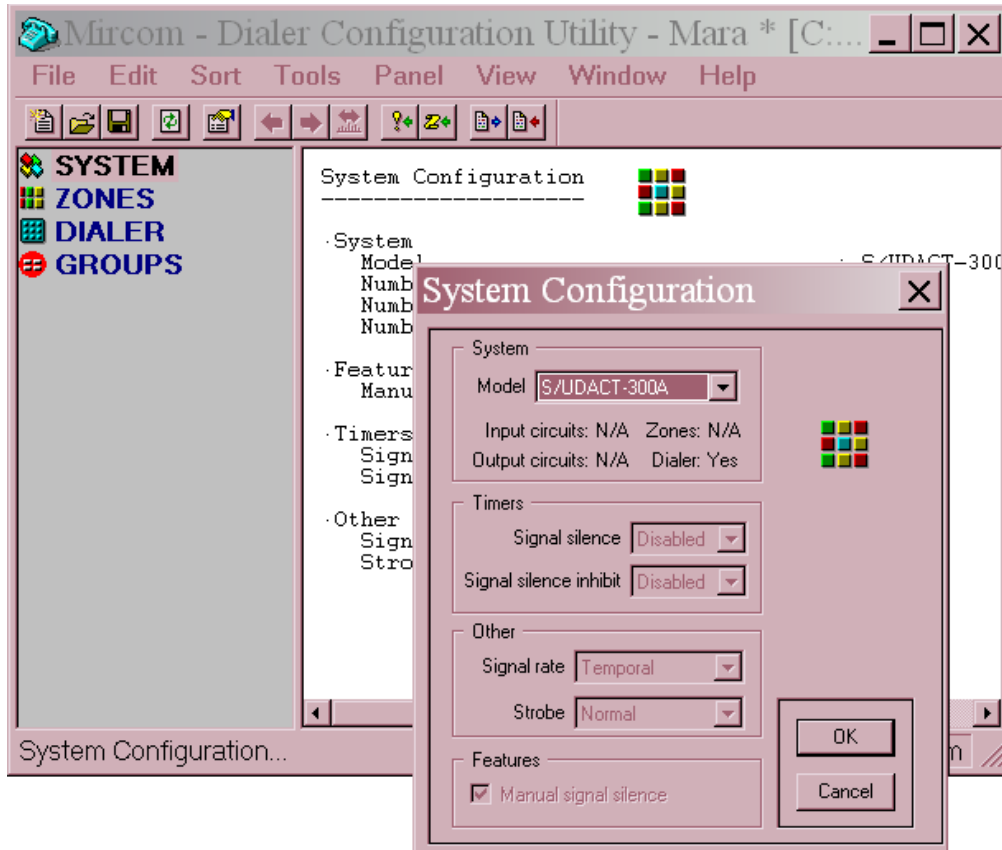


Note: For FleX-Net™, the dialer reports circuits which are grouped. If the FleX-Net™ circuits are not grouped at the panel, the dialer does not report.

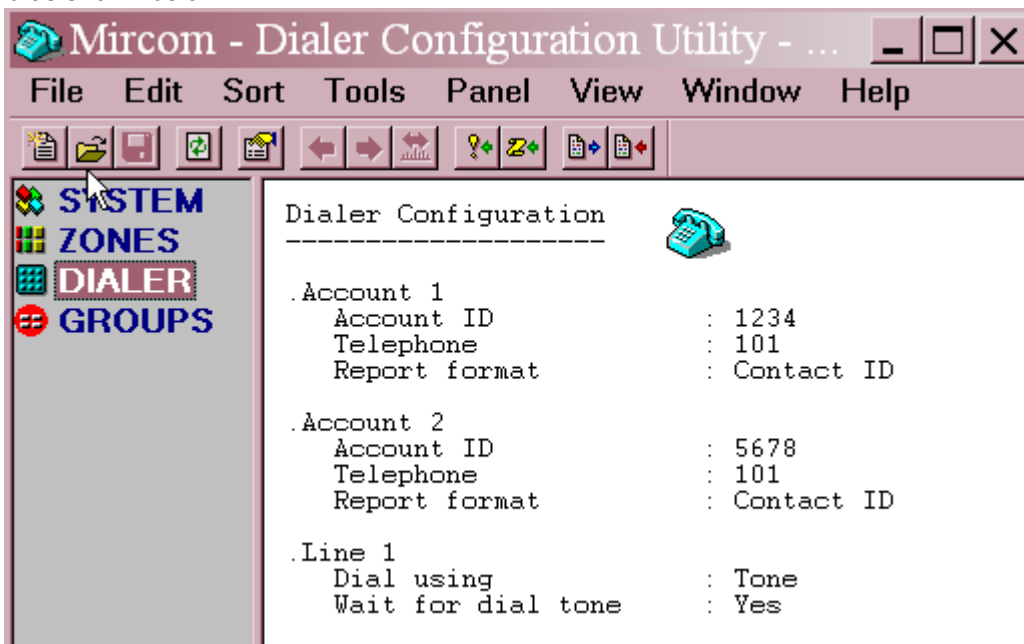
New ZDACT Feature for FX-2000

Using the Dialer Configuration Utility only, input circuits (of the FX-2000 only) can be grouped so that the UDACT will report any individual input event as a group event. If a device is not in the group, the dialer will report the event directly. Use the File menu to open an existing file or create a new one.

Double click on the System menu (right-hand side of the screen) to select the type of dialer.



Select the Dialer Menu from the left-side of the screen and the Dialer Configuration information will appear on the right-hand as shown below.



Select the Dialer Mode

Double click on the Dialer Configuration information shown on the right and the following screen will appear.

Dialer Configuration

Account 1
 Account ID: 1234
 Telephone: 101
 Report format: Contact ID

Account 2
 Account ID: 5678
 Telephone: 101
 Report format: Contact ID

Line 1
 Dial using: Tone Pulse
 Wait for dial tone before dialing

Line 2
 Dial using: Tone Pulse
 Wait for dial tone before dialing

Attached Fire Alarm
 Communications Protocol: Level 2
 Checksum: 8 bit 16 bit
 Event format: CktNo Loop & Addr
 Output offset: 0

Report priority
 Alarm: Account 1
 Supervisory: Account 1
 Trouble: Account 1
 Ignore Supervisory

Timers
 AC loss delay: 0 Hours
 Cellular test day: 0
 Auto test at: 12:30 AM

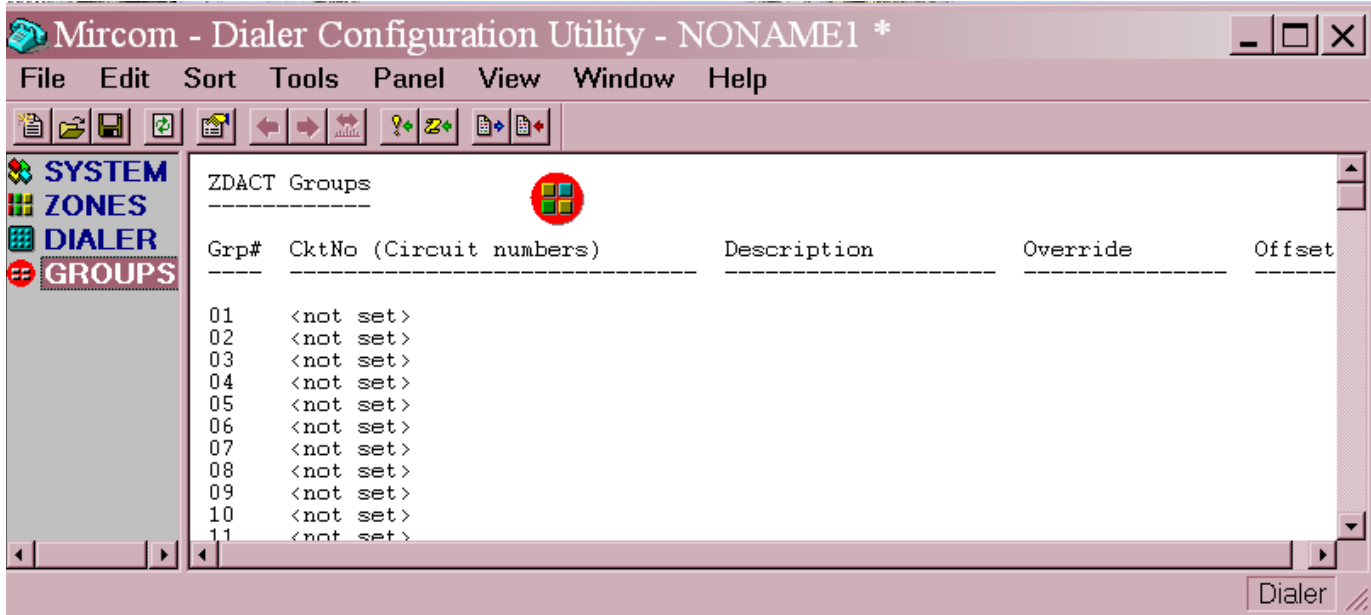
Dialer
 Line retries: 5
 Rings: 5
 Mode: ZDACT
 Enable

OK
 Cancel

Cursor down to the Dialer box, Mode line and select ZDACT. Do not forget to select Communications Protocol Level 2 and Checksum 16 bit in the Attached Fire Alarm box, then select OK and enter.

Grouping Inputs

Select the GROUPS menu on the left and you will see the following screen.



Double click on the information on the right side to enter the grouped input circuits.

Type in the input circuits you wish to group. For example Group 1 has input circuits 1, 2 and 3; Group 2 has input circuits 4, 5 and 6. The maximum number of groups allowed is 192. Each input zone can only be part of one group.



Note: The input circuit numbers should match the input circuits assigned at the FX-2000 Fire Alarm Control Panels..

For the circuits in the same group, the dialer (working in ZDACT mode) will only report the group active event when the first circuit inside becomes active. After all the active circuits are cleared, the dialer will report the group restore event.



Note: If a device is not in the group, the dialer will report the event directly with loop and address or circuit number as chosen...



Note: Grouping can only be done by the Dialer Configuration Utility software.

The **Description** section is used to type in information regarding these circuits. The description for each group is only for user reference, it will not be reported to the monitoring station.

Override, if set, can be chosen from the following list:

Fire, Smoke, Combustion, Water flow, Heat, Pull Station, Duct, Flame, Near Alarm, Medical, General Alarm, Loop Open, Loop Short, Sensor Tamper, Hazard Alert, Fire Supv, Zone Bypass, Sensor Trouble, No.

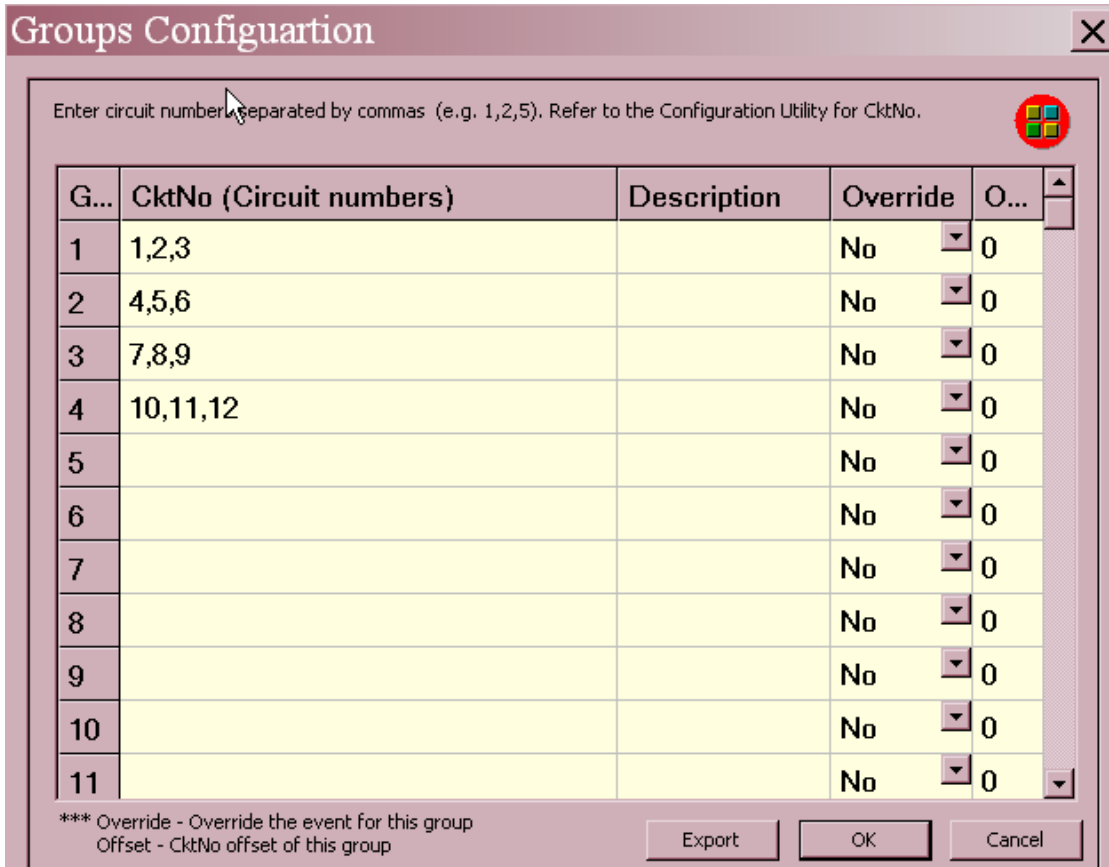
The override feature allows you to chose which active event will be associated with which group.

To have the dialer report supervisory instead of alarm, user needs to choose the manual override report code (works for Contact ID and with less options with SIA also) as "Fire Supv" from the list of Override Selection items.

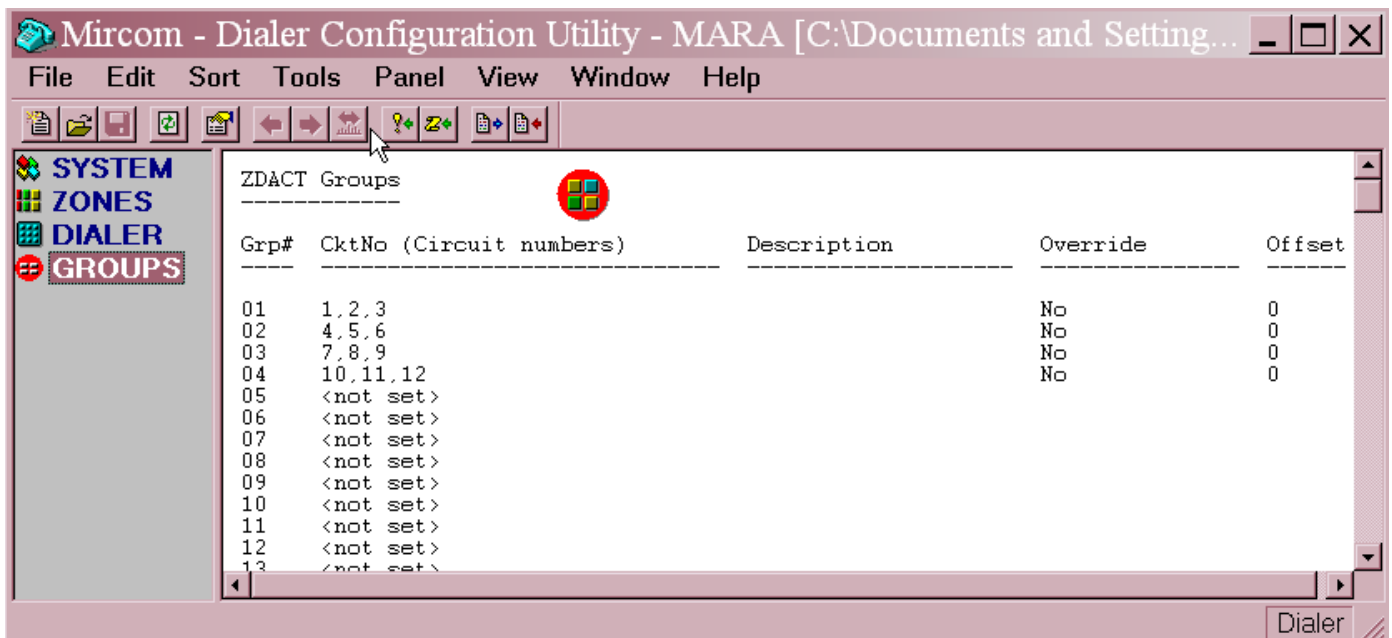


Attention: Use of the Override Feature should be with permission of the Authority Having Jurisdiction.

The Offset (last column on the right) is default 0, which means that Group 1 will be transmitted by the dialer to the Receiving Station as Group 1. If the Offset is set to 1000 (0 to 9999 is available), then Group 1 will be transmitted by the dialer to the Receiving Station as Group 1001. The offset (if used) must be selected per group.



Once you have entered all the groups, select OK and the following screen will display all the groups and their associated input circuit numbers.



4. Time Parameter Menu

```
- Time Parameter -
1 AC-Loss Delay
2 Cellphone Date
3 Auto-Test Time
```

<p>Command Menu/Dialer-Config/Time Parameter 1.AC Loss delay</p> <pre>AC-Loss Delay (Hrs) 0</pre>	<p>0 ->Default</p>	<p>Use this function to delay the reporting of AC loss trouble on the dialer for the programmed time period. Selection is from 0 to 20 hours.</p>
<p>Command Menu/Dialer-Config/Time Parameter 2.Cellular report date</p> <pre>Cellular Report Date 0</pre>	<p>0 ->Default</p>	<p>This sets the day of the month that Line 2 will be tested. Valid numbers are 0 to 31. On the report date selected only, Line 2 will be tested once if the Auto-Test Time is between 00:01 and 12:00 or twice if the Auto-Test Time is between 12:00 and 23:59. If this is set to 0, Line 2 will be tested once or twice every other day as per time selected in the Auto-Test Time</p>
<p>Command Menu/Dialer-Config/Time Parameter 3.Auto test time</p> <pre>Auto-Test Time 00:30</pre>	<p>00:30 ->Default</p>	<p>Use this function to set the time for auto test. When this test is performed the test report is sent to the monitoring station. The time is in 24hr format (using the CFG-300), which means 00:30 is 30 minutes after midnight.</p> <p>The test will be performed once a day, <u>unless</u> the time is set between 12:00 and 23:59, then auto test will be performed twice a day. Both lines will be tested daily if the Cellular Report Date is set to 0. If the Cellular Report Date is anything other than 0, line 1 will be tested once or twice (depending on the Auto-Test Time selected) a day and line 2 will be tested once or twice (depending on the Auto-Test Time selected) on the Cellular Report Date.</p> <p>Please avoid the following Test Times: 00:00, 01:55, 02:00 and 03:00</p>

Table for Auto-Test Function

Cellular Report Date	Line 1 Tested	Line 2 Tested	Auto Test Time
0	twice every other day	twice every other day	set between 12 a.m. and 12 p.m.
0	once every other day	once every other day	set between 12 p.m. and 12 a.m.
15	twice every day other than the 15th of the month	twice on the 15th of every month	set between 12 a.m. and 12 p.m.
15	once every day other than the 15th of the month	once on the 15th of every month	set between 12 p.m. and 12 a.m. Please avoid the following Test Times: 00:00 (12 a.m.), 01:55 (1:55 a.m.), 02:00 (2:00 a.m.) and 03:00 (3:00 a.m.)

Command Menu-->Dialer-Config

5. Dialer Enable/Disable

Command Menu/Dialer-Config/Enable/Disable		
<pre>Enable/Disable [X] Enable</pre> <pre>-----Warning----- Dialer Disabled!!!</pre>	<pre>[X] ENABLE ->Default [] DISABLE</pre>	<p>The dialer is enabled by default. When the dialer is enabled or disabled, a warning message appears.</p> <p>Warning: The dialer cannot report any event to the monitoring station if it is disabled.</p>

6. Ring Detection

Command Menu/Dialer-Config/Enable/Disable		
<pre>-Ring Detect Number- [X] 5</pre>	<pre>[] Disabled [] 1 [] 2 [] 3 [] 4 [X] 5->Default [] 6 [] 7 [] 8</pre>	<p>Use this menu item to select the number of rings on which the panel's modem will answer. The default number of rings is five. The maximum number of rings you can define is eight.</p> <p>If you select the "Disabled" option, the modem will be disabled and the panel will not pick up the incoming call.</p>

10. Exit (Command-Menu)

Pressing "ENTER" after selecting "Exit from the main menu will return the UDACT-300A to normal.

ADEMCO CONTACT-ID**UDACT-300A Internal Events:**

Contact-ID Event Description	Event Family	Qualifier	Code	Group #	Contact #
Phone Line #1 trouble detected	Trouble	New event	1 351	00	000
Phone Line #2 trouble detected	Trouble	New event	1 352	00	000
Phone Line #1 trouble restored	Trouble	Restore	3 351	00	000
Phone Line #2 trouble restored	Trouble	Restore	3 352	00	000
Failure to report to an Account	Trouble	New event	1 354	Acct #	Acct #
Report to an Account successful	Trouble	Restore	3 354	Acct #	Acct #
RS-485 Communication Trouble	Trouble	New event	1 350	00	485
Periodic (24 hr) Test Event (NORMAL)	Test	New event	1 602	00	000
Periodic (24 hr) Test Event (OFF NORMAL)	Test	New event	1 608	00	000
Manually initiated dialer test	Test	New event	1 601	00	000

UDACT-300A External Events:

Contact-ID Event Description	Event Family	Qualifier	Code	Group #	Contact #
Zone Fire Alarm	Alarm	New event	1 110	00	NNN
Zone Fire Alarm restored	Alarm	Restore	3 110	00	NNN
Smoke Alarm	Alarm	New event	1 111	00	NNN
Smoke Alarm restored	Alarm	Restore	3 111	00	NNN
Combustible Alarm	Alarm	New event	1 112	00	NNN
Combustible Alarm restored	Alarm	Restore	3 112	00	NNN
Fire Drill	Trouble	New event	1 604	00	NNN
Fire Drill restore	Trouble	Restore	3 604	00	NNN
Zone Trouble detected	Trouble	New event	1 300	00	NNN
Zone Trouble restored	Trouble	Restore	3 300	00	NNN
Zone Supervisory condition	Supervisory	New event	1 200	00	NNN
Zone Supervisory restored	Supervisory	Restore	3 200	00	NNN
System Trouble	Trouble	New event	1 300	00	NNN
System Trouble restore	Trouble	Restore	3 300	00	NNN
Sensor Bypass	Trouble	New event	1 570	00	NNN
Sensor Bypass restore	Trouble	Restore	3 570	00	NNN
Sensor Trouble	Trouble	New event	1 380	00	NNN
Sensor Trouble restore	Trouble	Restore	3 380	00	NNN

Contact-ID Event Description	Event Family	Qualifier	Code	Group #	Contact #
Waterflow	Alarm	New event	1 113	00	NNN
Waterflow restored	Alarm	Restore	3 113	00	NNN
Heat Alarm	Alarm	New event	1 114	00	NNN
Heat Alarm restored	Alarm	Restore	3 114	00	NNN
Pull Station Alarm	Alarm	New event	1 115	00	NNN
Pull Station Alarm restore	Alarm	Restore	3 115	00	NNN
Duct Alarm	Alarm	New event	1 116	00	NNN
Duct Alarm restore	Alarm	Restore	3 116	00	NNN
Flame Alarm	Alarm	New event	1 117	00	NNN
Flame Alarm restore	Alarm	Restore	3 117	00	NNN
Medical Alarm	Alarm	New event	1 100	00	NNN
Medical Alarm restore	Alarm	Restore	3 100	00	NNN
Sensor Tamper Alarm	Alarm	New event	1 144	00	NNN
Sensor Tamper Alarm restore	Alarm	Restore	3 144	00	NNN
Hazard Alert Alarm	Alarm	New event	1 150	00	NNN
Hazard Alert Alarm restore	Alarm	Restore	3 150	00	NNN
Indicating Zone Trouble	Trouble	New event	1 320	00	NNN
Indicating Zone Trouble restored	Trouble	Restore	3 320	00	NNN
Bell Circuit 1 Trouble	Trouble	New event	1 321	00	NNN
Bell Circuit 1 Trouble restore	Trouble	Restore	3 321	00	NNN
Bell Circuit 2 Trouble	Trouble	New event	1 322	00	NNN
Bell Circuit 2 Trouble restore	Trouble	Restore	3 322	00	NNN
Bell Circuit 3 Trouble	Trouble	New event	1 326	00	NNN
Bell Circuit 3 Trouble restore	Trouble	Restore	3 326	00	NNN
Bell Circuit 4 Trouble	Trouble	New event	1 327	00	NNN
Bell Circuit 4 Trouble restore	Trouble	Restore	3 327	00	NNN
Bell Bypass Trouble	Trouble	New event	1 520	00	NNN
Bell Bypass Trouble restore	Trouble	Restore	3 520	00	NNN
Bell Bypass 1 Trouble	Trouble	New event	1 521	00	NNN
Bell Bypass 1 Trouble restore	Trouble	Restore	3 521	00	NNN
Bell Bypass 2 Trouble	Trouble	New event	1 522	00	NNN
Bell Bypass 2 Trouble restore	Trouble	Restore	3 522	00	NNN

Contact-ID Event Description	Event Family	Qualifier	Code	Group #	Contact #
Bell Bypass 3 Trouble	Trouble	New event	1 526	00	NNN
Bell Bypass 3 Trouble restore	Trouble	Restore	3 526	00	NNN
Bell Bypass 4 Trouble	Trouble	New event	1 527	00	NNN
Bell Bypass 4 Trouble restore	Trouble	Restore	3 527	00	NNN
System Down	Trouble	New event	1 308	00	NNN
System Down restore	Trouble	Restore	3 308	00	NNN
General Alarm	Alarm	New event	1 140	00	NNN
General Alarm restored	Alarm	Restore	3 140	00	NNN
Loop Open Trouble	Trouble	New event	1 141	00	NNN
System Reset	Trouble	New event	1 305	00	000
Program Change	Trouble	New event	1 306	00	000
Time Change	Trouble	New event	1 625	00	000
RAM Checksum	Trouble	New event	1 303	00	000
ROM Checksum	Trouble	New event	1 304	00	000
Peripheral Trouble	Trouble	New event	1 330	00	000
Peripheral Trouble restore	Trouble	Restore	3 330	00	000
Printer Error	Trouble	New event	1 336	00	000
Printer Error restore	Trouble	Restore	3 336	00	000
Loop Open Trouble restore	Trouble	Restore	3 141	00	NNN
Loop Short Trouble	Trouble	New event	1 142	00	NNN
Loop Open Trouble restore	Trouble	Restore	3 142	00	NNN
AC power lost	Trouble	New event	1 301	00	000
AC power restored	Trouble	Restore	3 301	00	000
Battery Low	Trouble	New event	1 302	00	000
Battery Low restored	Trouble	Restore	3 302	00	000
Ground Fault	Trouble	New event	1 310	00	000
Ground Fault restored	Trouble	Restore	3 310	00	000

NNN-Refers to Sensor number for zone causing event.

SECURITY INDUSTRIES ASSOC. SIA-DCS**UDACT-300A Internal Events:**

Event Description	Event Family	Qualifier	SIA Event Code	Parameter
Phone Line #1 trouble detected	Trouble	New event	LT	001
Phone Line #2 trouble detected	Trouble	New event	LT	002
Phone Line #1 trouble restored	Trouble	Restore	LR	001
Phone Line #2 trouble restored	Trouble	Restore	LR	002
Failure to report to an Account	Trouble	New event	YC	Acct #
Report to an Account successful	Trouble	Restore	YK	Acct #
RS485 Communication Trouble	Trouble	New event	YS	485
Periodic (24 hr) Test Event (Normal)	Test	New event	RP	000
Periodic (24 hr) Test Event (Off-normal)	Test	New event	RY	000
Manually initiated dialer test	Test	New event	RX	000

UDACT-300A External Events:

Event Description	Event Family	Qualifier	SIA Event Code	Parameter
Zone Fire Alarm	Alarm	New event	FA	NNN
Zone Fire Alarm restored	Alarm	Restore	FH	NNN
Zone (Sensor) Trouble detected	Trouble	New event	FT	NNN
Zone (Sensor) Trouble restored	Trouble	Restore	FJ	NNN
Sensor Bypass	Trouble	New event	FB	NNN
Sensor Bypass restored	Trouble	Restore	FU	NNN
Zone Supervisory condition	Supervisory	New event	FS	NNN
Zone Supervisory restored	Supervisory	Restore	FR	NNN
Sensor Bypass	Trouble	New event	FB	NNN
Sensor Bypass restored	Trouble	Restore	FU	NNN
Waterflow alarm	Alarm	New event	WA	NNN
Waterflow alarm restored	Alarm	Restore	WH	NNN
Heat alarm	Alarm	New event	KA	NNN
Heat alarm restored	Alarm	Restore	KH	NNN
General Alarm	Alarm	New event	QA	NNN
General Alarm restored	Alarm	Restore	QH	NNN
Near Alarm	Alarm	New event	00	NNN
Near Alarm	Alarm	Restore	00	NNN

Event Description	Event Family	Qualifier	SIA Event Code	Parameter
Medical Alarm	Alarm	New event	MA	NNN
Medical Alarm	Alarm	Restore	MH	NNN
Sensor Tamper Alarm	Alarm	New event	TA	NNN
Sensor Alarm Restore	Alarm	Restore	TH	NNN
Hazard Alert Alarm	Alarm	New event	PA	NNN
Hazard Alert Alarm	Alarm	Restore	PH	NNN
Indicating Zone Trouble (*)	Trouble	New event	UT	NNN
Indicating Zone Trouble restored (*)	Trouble	Restore	UR	NNN
Fire Drill	Trouble	New event	FI	NNN
Fire Drill	Trouble	Restore	FK	NNN
System Reset	Trouble	New event	YW	000
Program Change	Trouble	New event	YG	000
Time Change	Trouble	New event	JT	000
RAM/ROM Checksum	Trouble	New event	YF	000
Peripheral Trouble	Trouble	New event	ET	000
Peripheral Trouble restore	Trouble	Restore	ER	000
Printer Error	Trouble	New event	VT	000
Printer Error restored	Trouble	Restore	VR	000
AC power lost	Trouble	New event	AT	000
AC power restored	Trouble	Restore	AR	000
Battery Low	Trouble	New event	YT	000
Battery Low restored	Trouble	Restore	YR	000
Ground Fault	Trouble	New event	YP	000
Ground Fault restored	Trouble	Restore	YQ	000
System Reset	Trouble	New event	YW	000
System Down	Trouble	New event	LB	000
System Down Restored	Trouble	Restore	LX	000

* **SIA** protocol does not define indicating zone troubles, but lists it as Untyped Zone Trouble/Restore.

Compatible Fire Alarm Control Panels

Mircom UDACT-300A: Compatible with **Mircom FA-1000 Series, FX-2000 Series** and **FleX-Net™** Fire Alarm Control Panels.

Compatible Receivers

The **Mircom UDACT-300A** is compatible with the following **Digital Alarm Communicator Receivers (DACR) ...**

DACR Receiver Model

Protocols

SurGard MLR2 Multi-Line Receiver (ULC, ULI Approved)	SIA-DCS and Ademco Contact ID
SurGard SLR Single-Line Receiver (ULC, ULI Approved)	SIA-DCS and Ademco Contact ID
Osborne-Hoffman Quickalert! II Receiver (ULI Approved)	SIA-DCS and Ademco Contact ID
Osborne-Hoffman OH-2000 Receiver (ULI Approved)	SIA-DCS and Ademco Contact ID
Silent Knight Model 9500 Receiver (ULI Approved)	SIA-DCS and Ademco Contact ID
Radionics Model D6500 Receiver (ULI Approved)	Ademco Contact ID
Radionics Model D6600 Receiver (ULI Approved)	SIA-DCS and Ademco Contact ID

Specifications

All Circuits are Power Limited

UDACT-300A Digital Communicator

- Connects to two Telephone Lines and performs line supervision.
- Connects to a Mircom FACP via a ribbon cable. This connection provides DC power, RS-485 Data Link, common relay connections and all other signalling between the Communicator and the FACP.
- Transmits Zoned Alarm, Supervisory, and Trouble status to a Central Monitoring Station, using either Ademco Contact ID or SIA DCS Protocols.
- User configurable locally or remotely. Configuration is passcode protected.
- Current Consumption: **Standby:** 40 mA **Alarm:** 60 mA

Battery Calculations

UDACT-300A

The UDACT-300A Battery Calculations are performed as part of the calculations for the Fire Alarm Control Panel it will be used in. See the appropriate Mircom Installation and Operation Manual.

Warranty & Warning Information

Warning Please Read Carefully

Note to End Users: This equipment is subject to terms and conditions of sale as follows:

Note to Installers

This warning contains vital information. As the only individual in contact with system users, it is your responsibility to bring each item in this warning to the attention of the users of this system. Failure to properly inform system end-users of the circumstances in which the system might fail may result in over-reliance upon the system. As a result, it is imperative that you properly inform each customer for whom you install the system of the possible forms of failure.

System Failures

This system has been carefully designed to be as effective as possible. There are circumstances, such as fire or other types of emergencies where it may not provide protection. Alarm systems of any type may be compromised deliberately or may fail to operate as expected for a variety of reasons. Some reasons for system failure include:

•*Inadequate Installation*

A Fire Alarm system must be installed in accordance with all the applicable codes and standards in order to provide adequate protection. An inspection and approval of the initial installation, or, after any changes to the system, must be conducted by the Local Authority Having Jurisdiction. Such inspections ensure installation has been carried out properly.

•*Power Failure*

Control units, smoke detectors and many other connected devices require an adequate power supply for proper operation. If the system or any device connected to the system operates from batteries, it is possible for the batteries to fail. Even if the batteries have not failed, they must be fully charged, in good condition and installed correctly. If a device operates only by AC power, any interruption, however brief, will render that device inoperative while it does not have power. Power interruptions of any length are often accompanied by voltage fluctuations which may damage electronic equipment such as a fire alarm system. After a power interruption has occurred, immediately conduct a complete system test to ensure that the system operates as intended.

•*Failure of Replaceable Batteries*

Systems with wireless transmitters have been designed to provide several years of battery life under normal conditions. The expected battery life is a function of the device environment, usage and type. Ambient conditions such as high humidity, high or low temperatures, or large temperature fluctuations may reduce the expected battery life. While each transmitting device has a low battery monitor which identifies when the batteries need to be replaced, this monitor may fail to operate as expected. Regular testing and maintenance will keep the system in good operating condition.

•*Compromise of Radio Frequency (Wireless) Devices*

Signals may not reach the receiver under all circumstances which could include metal objects placed on or near the radio path or deliberate jamming or other inadvertent radio signal interference.

•*System Users*

A user may not be able to operate a panic or emergency switch possibly due to permanent or temporary physical disability, inability to reach the device in time, or unfamiliarity with the correct operation. It is important that all system users be trained in the correct operation of the alarm system and that they know how to respond when the system indicates an alarm.

•*Automatic Alarm Initiating Devices*

Smoke detectors, heat detectors and other alarm initiating devices that are a part of this system may not properly detect a fire condition or signal the control panel to alert occupants of a fire condition for a number of reasons, such as: the smoke detectors or heat detector may have been improperly installed or positioned; smoke or heat may not

be able to reach the alarm initiating device, such as when the fire is in a chimney, walls or roofs, or on the other side of closed doors; and, smoke and heat detectors may not detect smoke or heat from fires on another level of the residence or building.

•*Software*

Most Mircom products contain software. With respect to those products, Mircom does not warranty that the operation of the software will be uninterrupted or error-free or that the software will meet any other standard of performance, or that the functions or performance of the software will meet the user's requirements. Mircom shall not be liable for any delays, breakdowns, interruptions, loss, destruction, alteration or other problems in the use of a product arising out of, or caused by, the software.

Every fire is different in the amount and rate at which smoke and heat are generated. Smoke detectors cannot sense all types of fires equally well. Smoke detectors may not provide timely warning of fires caused by carelessness or safety hazards such as smoking in bed, violent explosions, escaping gas, improper storage of flammable materials, overloaded electrical circuits, children playing with matches or arson.

Even if the smoke detector or heat detector operates as intended, there may be circumstances when there is insufficient warning to allow all occupants to escape in time to avoid injury or death.

•*Alarm Notification Appliances*

Alarm Notification Appliances such as sirens, bells, horns, or strobes may not warn people or waken someone sleeping if there is an intervening wall or door. If notification appliances are located on a different level of the residence or premise, then it is less likely that the occupants will be alerted or awakened. Audible notification appliances may be interfered with by other noise sources such as stereos, radios, televisions, air conditioners or other appliances, or passing traffic. Audible notification appliances, however loud, may not be heard by a hearing-impaired person.

•*Telephone Lines*

If telephone lines are used to transmit alarms, they may be out of service or busy for certain periods of time. Also the telephone lines may be compromised by such things as criminal tampering, local construction, storms or earthquakes.

•*Insufficient Time*

There may be circumstances when the system will operate as intended, yet the occupants will not be protected from the emergency due to their inability to respond to the warnings in a timely manner. If the system is monitored, the response may not occur in time enough to protect the occupants or their belongings.

•*Component Failure*

Although every effort has been made to make this system as reliable as possible, the system may fail to function as intended due to the failure of a component.

•*Inadequate Testing*

Most problems that would prevent an alarm system from operating as intended can be discovered by regular testing and maintenance. The complete system should be tested as required by national standards and the Local Authority Having Jurisdiction and immediately after a fire, storm, earthquake, accident, or any kind of construction activity inside or outside the premises. The testing should include all sensing devices, keypads, consoles, alarm indicating devices and any other operational devices that are part of the system.

•*Security and Insurance*

Regardless of its capabilities, an alarm system is not a substitute for property or life insurance. An alarm system also is not a substitute for property owners, renters, or other occupants to act prudently to prevent or minimize the harmful effects of an emergency situation.

IMPORTANT NOTE: End-users of the system must take care to ensure that the system, batteries, telephone lines, etc. are tested and examined on a regular basis to ensure the minimization of system failure.

Limited Warranty

Mircom Technologies Ltd. together with its subsidiaries and affiliates (collectively, the “Mircom Group of Companies”) warrants the original purchaser that for a period of three years from the date of shipment, the product shall be free of defects in materials and workmanship under normal use. During the warranty period, Mircom shall, at its option, repair or replace any defective product upon return of the product to its factory, at no charge for labor and materials. Any replacement and/or repaired parts are warranted for the remainder of the original warranty or ninety (90) days, whichever is longer. The original owner must promptly notify Mircom in writing that there is defect in material or workmanship, such written notice to be received in all events prior to expiration of the warranty period.

International Warranty

The warranty for international customers is the same as for any customer within Canada and the United States, with the exception that Mircom shall not be responsible for any customs fees, taxes, or VAT that may be due.

Conditions to Void Warranty

This warranty applies only to defects in parts and workmanship relating to normal use. It does not cover:

- damage incurred in shipping or handling;
- damage caused by disaster such as fire, flood, wind, earthquake or lightning;
- damage due to causes beyond the control of Mircom such as excessive voltage, mechanical shock or
- water damage;
- damage caused by unauthorized attachment, alterations, modifications or foreign objects;
- damage caused by peripherals (unless such peripherals were supplied by Mircom);
- defects caused by failure to provide a suitable installation environment for the products;
- damage caused by use of the products for purposes other than those for which it was designed;
- damage from improper maintenance;
- damage arising out of any other abuse, mishandling or improper application of the products.

Warranty Procedure

To obtain service under this warranty, please return the item(s) in question to the point of purchase. All authorized distributors and dealers have a warranty program. Anyone returning goods to Mircom must first obtain an authorization number. Mircom will not accept any shipment whatsoever for which prior authorization has not been obtained. NOTE: Unless specific pre-authorization in writing is obtained from Mircom management, no credits will be issued for custom fabricated products or parts or for complete fire alarm system. Mircom will at its sole option, repair or replace parts under warranty. Advance replacements for such items must be purchased.

Note: Mircom’s liability for failure to repair the product under this warranty after a reasonable number of attempts will be limited to a replacement of the product, as the exclusive remedy for breach of warranty.

Disclaimer of Warranties

This warranty contains the entire warranty and shall be in lieu of any and all other warranties, whether expressed or implied (including all implied warranties of merchantability or fitness for a particular purpose) And of all other obligations or liabilities on the part of Mircom neither assumes nor authorizes any other person purporting to act on its behalf to modify or to change this warranty, nor to assume for it any other warranty or liability concerning this product.

This disclaimer of warranties and limited warranty are governed by the laws of the province of Ontario, Canada.

Out of Warranty Repairs

Mircom will at its option repair or replace out-of-warranty products which are returned to its factory according to the following conditions. Anyone returning goods to Mircom must first obtain an authorization number. Mircom will not accept any shipment whatsoever for which prior authorization has not been obtained.

Products which Mircom determines to be repairable will be repaired and returned. A set fee which Mircom has predetermined and which may be revised from time to time, will be charged for each unit repaired.

Products which Mircom determines not to be repairable will be replaced by the nearest equivalent product available at that time. The current market price of the replacement product will be charged for each replacement unit.

The foregoing information is accurate as of the date of publishing and is subject to change or revision without prior notice at the sole discretion of the Company

WARNING: Mircom recommends that the entire system be completely tested on a regular basis. However, despite frequent testing, and due to, but not limited to, criminal tampering or electrical disruption, it is possible for this product to fail to perform as expected.

NOTE: Under no circumstances shall Mircom be liable for any special, incidental, or consequential damages based upon breach of warranty, breach of contract, negligence, strict liability, or any other legal theory. Such damages include, but are not limited to, loss of profits, loss of the product or any associated equipment, cost of capital, cost of substitute or replacement equipment, facilities or services, down time, purchaser's time, the claims of third parties, including customers, and injury to property.

MIRCOM MAKES NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO ITS GOODS DELIVERED, NOR IS THERE ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, EXCEPT FOR THE WARRANTY CONTAINED HEREIN.

UDACT-300A INFORMATION FORM

Account #1 Identification (max. 6 digits): _____

Account #1 Telephone number (including area code): _____

Telephone number of receiving station (including area code) : _____

Reporting Format:

Contact ID

SIA

Account #2 Identification (max. 6 digits): _____

Account #2 Telephone number (including area code): _____

Telephone number of receiving station (including area code): _____

Reporting Format:

Contact ID

SIA



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