Honeywell

AlarmNet[®]

7845GSM/7845GSMCN Digital Cellular Communicator

Installation and Setup Guide



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Table of Contents

SECTION 1: General Information	1-1
System Overview	1-1
Introduction	1-1
General Information	1-1
System Features	1-1
Modes of Operation	1-1
ECP Mode	
4204 Mode and Two-4204 Mode	
Module Supervision Features	
Antenna	
Specifications	
Mechanical	
Electrical	
RF	
Environmental	
SECTION 2: Mounting and Wiring	2-1
Mounting the 7845GSM	
Wiring the 7845GSM	
Wiring for ECP, 4204 and Two-4204 Modes	
Wiring for Zone Trigger Mode	
Wiring for Module Fault Relay	
Power Connections and Options	
Backup Battery Connection	
Initial Power-Up Sequence	
SECTION 3: Programming the 7845GSM	
General Information	
Using the AlarmNet Direct website	
Using a 7720P Programming Tool	
Using the Control Panel Programming Mode	
Programming Conventions	
ECP Mode Programming	
ECP Status Codes	
Alternative Modes (Zone Trigger, 4204 and Two-4204)	
Zone Trigger Mode	
4204 Emulation Mode	
4204 Emulation Mode Options	
Alternative Mode Programming	

Exiting Programming Mode	
Setting Factory Defaults	
SECTION 4: Registration	
Registering the 7845GSM	4-1
Registering through AlarmNet Direct Website	4-1
Using the Tamper Switch	
Using the Programming Tool	
Replacing an existing module using the programming tool	
Register by Phone	4-4
SECTION 5: Programmer Keyboard Commands	
Programmer Keyboard Commands	
Module Identification Displays	5-1
GSM Status Displays	
System Status Displays	
SECTION 6: Appendices	
Appendix A: Summary of LED Operation	
7845GSM Status Display Operation	6-1
Signal Strength (RSSI) / Mode and Status LEDs	
Mode and Status Indicator Switch	
Appendix B: Central Station Messages	
Appendix C: GSM Downloading	
General Information	
Direct Wire Setup	6-5
Appendix D: Glossary	6-6
Summary of Connections Diagram	Inside Back Cover

SECTION 1

General Information

In This Section

System Overview

Specifications

System Features

System Overview

Introduction

Congratulations on your purchase of Honeywell's 7845GSM/7845GSMCN Digital Cellular Communicator (henceforth referred to as 7845GSM). It represents the latest and most innovative communication technology for the security industry and uses the most sophisticated encryption to ensure the highest level of security for your customer.

In addition to alarm reporting, the 7845GSM provides upload/downloading capability of Honeywell's control panel data via the AlarmNet-G network, using GSM (Global System for Mobile) technology.



The 7845GSM module requires an AlarmNet–I account. For new installations, please obtain the account information from the central station prior to programming this module. For replacement installations, the AlarmNet-I account is created automatically when the module is registered (based on the existing "C Series" account).

General Information

Honeywell's 7845GSM Cellular Communicator transmits signals to the AlarmNet-G network (GSM cellular network, which uses GPRS to complete these transmissions) and forwards them to your central station. If your current Central Station is capable of receiving signals from AlarmNet central stations, they are capable of receiving signals from the 7845GSM.

If the GPRS network is unavailable, the 7845GSM will attempt to send the transmission via SMS (Short Message Service).

System Features

Basic features of the 7845GSM include:

- Quick connection to compatible Honeywell series control panels
- Simple programming using a 7720P programming tool
- Reports fire, burg, and status messages via wireless network
- Allows uploading and downloading of control panel data via the wireless network.

Modes of Operation

The 7845GSM provides four modes of operation so it can be used with various types of control panels, as summarized below:

ECP Mode

- This mode is for use with Honeywell controls that support LRR-ECP communication
- The module connects to the control's keypad terminals and provides 2-way communication with the control using ECP messaging

- The control treats the module as a Long Range Radio (LRR) device, so program the control accordingly, including setting the module's proper LRR device address
- Reports are sent in Contact ID format
- The module also supports two hardwire zone trigger inputs (zones 6 and 7)

Zone Trigger Mode

- This mode is for use with controls that do not support LRR-ECP communication nor 4204 Relay Modules
- The module provides six input zones
- Each zone can be configured for +V, -V, or EOLR triggering
- Each zone can be programmed for inverted operation, delayed reporting, and restoral reporting
- Zone 1 input can distinguish between pulsed and steady signals and report fire or burglary alarms respectively
- Zone 1 can also be programmed to report Lynx panic (if used with Lynx control)
- Reports are sent in ADEMCO High-Speed format

4204 Mode and Two-4204 Mode

- This mode is for use with Honeywell controls that do not support LRR-ECP communication, but that do support 4204 Relay Modules
- The module connects to the control's keypad terminals
- The control treats the module as 4204 Relay Module(s), so program the control accordingly, including setting the module's proper 4204 device address
- 4204 mode provides up to four zone inputs, plus two optional trigger zones, depending on options programmed
- Two-4204 mode provides up to eight zone inputs, depending on options programmed
- Each 4204 zone can be programmed for delayed reporting and restoral reporting
- Reports are sent in ADEMCO High-Speed format

Module Supervision Features

The 7845GSM provides the following types of supervision and module fault detection:

- <u>Network communication failure</u>: In the event the AlarmNet network does not hear a supervisory message from the module within a specified time ("Supervision" option, 24 hours, 30 days, or none), AlarmNet notifies the central station of a communication failure.
- <u>Communication path failure</u>: In the event the module detects a communication path failure, the control panel can be notified of a trouble condition with the module after a specified time has elapsed ("GSM Flt Time" option, 00-99 minutes).
- <u>Fault output</u>: Terminal 11 can serve as a fail-safe trigger for module fault conditions.

If used, the fault relay will trip when the following conditions occur: tamper*, power loss*, low battery*, battery charger fault*, loss of network connectivity*, the device is not registered and the device is remotely disabled by AlarmNet.

*Alarm reporting for the noted condition must be enabled for it to trigger the fault relay.

- Primary power loss and low battery conditions ("Pwr Loss Rpt," "Low Bat Rpt" options).
- Cover tamper condition ("Tamper Rpt" option).

Antenna

The 7845GSM comes equipped with an internal antenna. This feature provides additional security to the installation by making the device tamper resistant.



AMPS antennas, such as the 7825-OC antenna, cannot be used with this product.

Specifications

Mechanical

Dimensions: 8.4" x 8.0" x 1.5"

Weight: 2.4 lbs., with battery

Electrical

Input Power: 9VAC, 15VA transformer, Honeywell part number 1332/1332CN in Canada (included)

Backup Battery: 6V, 3.1AH, Honeywell part number K14139, (included)

Current Drain: 35mA average standby, 500mA peak transmit

Fault Relay Output: Open collector, 12VDC, .25W max.

Input Trigger Levels: (V+) 2V – 13V

(V-) 0V - 1V

RF

Transceiver Type: Tri-Band GSM/GPRS Class 10 Modulation: GMSK Antenna: Internal GSM quad-band antenna 1.3 dBi gain

Band	Transmission Frequency (MHz)	Transmit Power (dBm)	Receive Frequency (MHz)	Receive Sensitivity (dBm)	Number of Channels	Channel Spacing (MHz)	Duplex Separation (kHz)
GSM 850	824-849	33	869-894	-107	124	200	45
GSM 1800	1710-1785	33	1805-1880	-106	374	200	95
GSM 1900	1850-1910	33	1930-1990	-105.5	299	200	80

Environmental

Operating temperature: -20° to +55°C

Storage temperature: -40° to +70°C

Humidity: 0 to 90% relative humidity, non-condensing

Altitude: to 10,000 ft. operating, to 40,000 ft. storage

SECTION 2

Mounting and Wiring

In This Section

Mounting the 7845GSM

Power Connections and Options

Wiring the 7845GSM

Mounting the 7845GSM

The 7845GSM must be mounted **indoors**. To mount the 7845GSM, see *Figure 1* and complete the following steps:

- 1. Unpack the 7845GSM and detach the case back by pushing up into the two tabs located at the bottom of the 7845GSM with the blade of a screwdriver while pulling the case back and case front apart.
- 2. Temporarily connect the 7845GSM to the AC transformer, supplied.
- 3. Choose the installation site with the **best signal strength** by observing the signal strength (RSSI) bar graph (refer to *Section 6* for information about signal strength and status indications). Signal strength should be within 3-5 bars. The best signal strength is usually found at the highest point in the building, near a window. Unplug the transformer.



- 4. Locate the case back over the mounting surface such that the opening in the case back is aligned with the wire/cable access opening (in the mounting surface) while passing the wires/cable through the opening in the case back, or through the removable knockouts located on the bottom of the back cover.
- 5. Secure the case back to the mounting surface using four screws (supplied).
- 6. When all wiring is completed, attach the case front of the 7845GSM to the case back. Attach the top of the 7845GSM first then press the bottom section inward until it snaps into place. Secure bottom using cover securing screw (supplied) as shown below, (required for UL installations).



Figure 1. Mounting the 7845GSM

Wiring the 7845GSM



Unshielded, 22 AWG cable is recommended for 7845GSM power/data wires.

Wiring for ECP, 4204 and Two-4204 Modes

Most Honeywell ADEMCO control panels support LRR-ECP data communication, (e.g., VISTA-10P, VISTA-15P, VISTA-20P, LynxR-I, VISTA-128BP and VISTA-128FBP). However, there are some panels that do not. Check the Installation and Setup Guide for the control panel you are using to see if it supports ECP communication.

Connect the 7845GSM to a compatible Honeywell VISTA control panel's ECP terminals, in parallel with keypads and other peripheral devices such as RF receiver, VIP module, etc. Wire length/gauge limitations are the same for the module as they are for keypads and other peripheral devices. To wire the module for ECP or 4204 modes, see *Figure 2* and make the following connections:

Table 1. Wiring connections for ECP or 4204 modes

7845GSMControlTerminal 3 V++12 V AuxTerminal 4 GNDGroundTerminal 5 Data InData OutTerminal 6 Data OutData In



Figure 2. Wiring a VISTA for ECP Mode or 4204 Modes

To install a 7845GSM with a LynxR-I Security System, wire the devices as shown in *Figure 3*. Refer to the LynxR-I Installation and Setup Guide.



Figure 3. Wiring a LynxR-I for ECP Mode

Wiring for Zone Trigger Mode

To trip a zone on the 7845GSM in V+ trigger mode, the positive triggering voltage from the control panel must be within 2.0V-14.5V.

Trigger levels above this range may cause permanent damage to the unit.

Trigger levels below this range result in unreliable operation.

To trip a zone on the 7845GSM in V- trigger mode, the negative triggering voltage must be less than 1.0V.

NOTE: LynxR and LynxR-EN have a designated trigger for trigger.

Connect a wire from the triggering source (bell output, voltage trigger, etc.) of the control panel to the zone input of the module, and connect a common ground between the module and control panel.



The configurations shown in Figures 4 and 5 have not been evaluated by UL.

Examples of zone connections follow:



Figure 4. Wiring the 7845GSM Zone 1 Input for a Positive (+) Triggered Bell Output



Figure 5. Wiring the 7845GSM Zone 1 Input for a Ground (-) Triggered Bell Output



Figure 6. Wiring the 7845GSM Zone 1 Input to a LynxR Trigger Output

Wiring for Module Fault Relay

You may wire and program the module's fault output trigger for fail-safe mode (see the question "FLT REL ON Y/N").

To sense a module fault at the control panel, make connections as shown in *Figure* 7, including the proper EOL resistor required by the control.



Figure 7. Wiring the 7845GSM to Trip a Control Panel Zone for Normally Closed Fault



Figure 8. Wiring the 7845GSM Zone 1 Input for EOL Supervised N.O./N.C. Triggers

Power Connections and Options

Primary power for the 7845GSM is provided by the AC plug-in transformer. For ECP communication, you must also connect the +12VDC AUX voltage output of the control panel (9.6V-13.8V typical) (see *Figure 9*). In the case of the LynxR-I, primary power is supplied by the LynxR-I unit through the IP/LRR communication port.

In all installations, TB1-4 GND must be connected to ground (GND) on the control panel.



Figure 9. Powering the 7845GSM

NOTE: When calculating the total load on the auxiliary power output of the control panel, budget 10mA for the 7845GSM when using ECP mode.

Backup Battery Connection

The included battery (K14139) is used for backup in the event of a system power loss.

- The battery can provide over 24 hours of system life in the event of a power failure.
- A programmable power loss message can alert the AlarmNet Control Center when system power is lost (power loss messages are reported within 1-3 hours of actual loss).

- The module transmits a low-battery message (programmable) when the battery reaches $5.7V \pm 5\%$, indicating subsequent message may not be transmitted.
- The system shuts down when the battery reaches 5.1V, and radio transmissions are no longer possible.
- If system power is restored before the module shuts down, a power restore message is sent within 1-3 hours after power is restored, and the battery is recharged using the 7845GSM's built-in battery charger. If system power is restored after the 7845GSM has shut down, a power-on reset condition exists, the module initializes itself and the battery will recharge.

Install the battery as follows, and refer to the *Summary of Connections* diagram at the end of this document.

- 1. Place the battery inside the case back.
- 2. Snap the right side of the battery clip onto the inside of the case back and secure the left side with the screw provided.



- 1. Do not plug the battery in until after you have powered-up the 7845GSM.
- 2. If using a LynxR-I, do not connect the module's backup battery. The LynxR-I backup battery will supply backup power in the event of a power outage.

Initial Power-Up Sequence

Before connecting power, check that the following have been completed:

- 1. If using ECP Mode, terminal block TB1 V+ and GND terminals are connected to the control panel's auxiliary power output: 12VDC nominal.
- 2. Plug in the transformer (or other main power source). Initially, all 7845GSM programming options are set to the factory default settings.
- 3. Connect the red and black battery cables to the battery terminals. Connect battery cable to connector J1.
- 4. Power up the control panel.

Programming the 7845GSM

In This Section

General Information	♦ Alternative Mode Programming
♦ ECP Mode Programming	Exiting Programming Mode
 Alternative Modes (Zone Trigger, 4204 and Two-4204) 	

General Information

The 7845GSM is designed to deliver alarms via the GSM network to an AlarmNet central station when it is registered with a valid AlarmNet account.



The 7845GSM module requires an AlarmNet–I account. For new installations, please obtain the account information from the central station prior to programming this module. For replacement installations, the AlarmNet-I account is created automatically when the module is registered (based on the existing "C Series" account).

You can program a 7845GSM by one of the following methods:

- Through the AlarmNet Direct website
- Through use of a 7720P Programming Tool
- Through a programming mode in the control panel on panels that support this option (e.g., VISTA-128BP and FBP)

Using the AlarmNet Direct website

To program the module via the website (if you are already signed up for this service), go to: https://services.alarmnet.com/AlarmNetDirect/userlogin.aspx

If you are not signed up for this service, click on "Dealer Sign-Up.

Log in and follow the on-screen prompts.

Please have the following information available when programming the module:

- 1. Primary City ID (two-digit number)
- 2. Primary Central Station ID (two-digit hexadecimal number)
- 3. Primary Subscriber ID (four-digit number)
- 4. MAC ID and MAC CRC number (located on the outside of box and on label inside module) or MIN number of the device you are replacing
- 5. Mode of operation of existing module if replacing a "C" series radio.

After programming is complete, you must transfer the data to the module and the module must be registered. Refer to *Section 4: Registration*, for further instructions.

Using a 7720P Programming Tool

Connect the 7720P Programming Tool as shown below. The 7845GSM powers the 7720P Programming Tool via the programming jack, and automatically senses the presence of the 7720P when it is plugged in.



Figure 10. Cable Connections

Each key of the 7720P has two possible functions: a normal function and a Shift function. To perform a normal key function, simply press the desired key.

To perform a Shift function, press the [shift] key, and then press the appropriate key.

The prompts in this document reflect use of the 7720P Programming Tool. Table 2 below lists each normal and shift key function.

KEY	NORMAL KEY FUNCTION	SHIFT KEY FUNCTION		
BS/ESC	[BS]: Press to delete entry	[ESC]: Press to quit program mode; also can reset programming defaults*		
\downarrow/\uparrow	$[\downarrow]$: Scroll down programming	[[↑]]: Scroll up programming		
N/Y	[N]: Press for "NO" answer	[Y]: Press SHIFT-Y for "YES" answer		
SHIFT	Press before pressing a SHIFT key functi is pressed. Press again for each SHIFT fu	on. Will light SHIFT LED. LED goes out once a key unction desired.		
1/A	[1]: For entering the number 1	[A]: For entering letter A		
2/B	[2]: For entering the number 2	[B]: For entering letter B		
3/C	[3]: For entering the number 3	[C]: For entering letter C		
4/D	[4]: For entering the number 4	[D]: For entering letter D		
5/E	[5]: For entering the number 5	[E]: For entering letter E		
6/F	[6]: For entering the number 6	[F]: For entering letter F		
7/S	[7]: For entering the number 7	[S]: For entering letter S		
8/T	[8]: For entering the number 8	[T]: For entering letter T		
9/X	[9]: For entering the number 9	[X]: For entering letter X		
SPACE	[SPACE]: For scrolling option list	No SHIFT function		
0	[0]: For entering the number 0	No SHIFT function		
#/ENTER	[#/ENTER]: Starts programming mode; Press to accept entries	No SHIFT function		

Table 2. 7720P Normal and Shift Key (shift LED lit) Functions

*Active only when the "Exit Programming Mode" prompt is displayed.

Using the Control Panel Programming Mode

Some control panels support programming of the 7845GSM through the control panel programming mode (e.g., Vista-128BP). If programming through the control panel, only the ECP Mode programming options are available. The "mode" questions will not be displayed, and the mode cannot be changed. For a description of key functions on the

control panel keypad, and how they map to the 7720P Programming tool, refer to the control panel's Programming Guide.

Programming Conventions

Programming is accomplished by answering a series of prompts (questions). Most prompts require only a [Y]es or [N]o response, while others require a numerical response (ID numbers, etc.).

The current value is displayed on the second line in parentheses (). A "?" indicates an invalid entry.

Use the [ENTER] key to accept the current entry and proceed to the next prompt. If the entered value is invalid, pressing [ENTER] re-displays the prompt; the next prompt is not displayed until a valid answer is entered.

Use the up/down arrow keys to scroll through the programming questions without changing any values. Press the [ESC] key to go to the end of the list of questions.

ECP Mode Programming

The 7845GSM supports ECP messaging to communicate with the control panel. LRRenabled control panels send Contact ID format alarms to the 7845GSM directly on the 4-wire console bus. Not all control panels support the LRR interface on ECP, so be sure to check the Installation and Setup Guide of the control panel to see if it supports this feature.

Refer to Table 3 for ECP Mode programming and follow the prompts.

Press the [ENTER] key to begin programming.

NOTE: The c	entral station car	n re	mote	ly blo	ck acc	ess to l	ocal	Access to Prog
device	programming.	lf	this	has	been	done,	the	Mode Denied
following prompt appears:								

NOTE: The default programming values for ECP mode are listed in the prompts below.

	PROMPTS	ENTRY	OPTIONS	DESCRIPTION
1	Strt Prog Mode? (Y/N)_		[Y], [N]	Enters programming mode.
2	Enter Password		[0-9, A-F, N, S, T, X, Y]	If a password has been previously assigned, this prompt appears. Enter a 4-digit password (0-9, A-F, N, S, T, X, Y). The next prompt appears.
3	Program 7845? (Y/N)_		[Y], [N]	To begin programming the module, press [Y] and go to Prompt 9: "Device Mode."
				To create a password if none has been assigned, press [N] and go to Prompt 4: "Create Password."
			1 1 1 1 1	To change an existing password, press [N] and go to Prompt 5: "Change Password."
4	Create Password? (Y/N)_		[Y], [N]	Passwords can be used to protect account and programming information. If no password has been assigned, this prompt appears after pressing [N] at the "Program 7845?" prompt. If a password is desired, press [Y] and go to Prompt 6: "Enter Password."
5	Change Password? (Y/N)_		[Y], [N]	If a password has already been assigned, this prompt appears after pressing [N] at the "Program 7845?" prompt. Press [Y] if you want to change the password.
				NOTE: To clear an existing password, without entering a new one, answer [Y] to the "Change Password?" prompt, then press the [Enter] key when prompted for the new password and its confirmation.

Table 3: Programming a 7845GSM for ECP mode only.

$7845 GSM / \, 7845 GSM CN \, Installation \, and \, Setup \, Guide$

	PROMPTS	ENTRY	OPTIONS	DESCRIPTION
6	Enter Password		[0-9, A-F, N, S, T, X, Y]	This prompt is displayed if [Y] was pressed in Prompt 4 or 5.
7	Verify Password		[0-9, A-F, N, S, T, X, Y]	Enter a 4-digit password (0-9, A-F, N, S, T, X, Y). Re-enter the password as confirmation. If the password doesn't match the first entry, the following is displayed followed by the "Exit Prog. Mode?" prompt: Verify Not OK PSWD not created
8	Exit Prog. Mode? (Y/N)_		[Y], [N] [ESC]	Otherwise, the "Exit Prog. Mode?" prompt is displayed directly. Exits program mode. Press [N] to go back to Prompt 3. Press [ESC] to load factory defaults. Refer to the <i>Exiting Programming Mode</i> paragraph in this section.
9	Device Mode (ECP)_		• ECP • Zone Trig. • 4204 Emu • Two 4204s	Press the [space] key to scroll through the modes of operation. Press [ENTER] to select ECP mode. See <i>Table 5</i> if programming other modes.
	Important In	formation Re	garding Primar	
1	Account information is reporting, you will nee account must differ fro	s provided by the d secondary according that of the p	e central station count information rimary account.	administrator. If the control supports secondary account a. The City ID, CS ID or Subscriber ID of the secondary
10	Primary City ID (??)_		[01-99]	Enter the 2-digit primary city ID, 01-99 (decimal).
11	Primary CS ID (???)		[01-FE]	Enter the 2-digit primary central station ID number, 01-FE (HEX).
12	Primary Sub ID (????)		[0001-9999]	Enter the 4-digit subscriber account number, 0001- 9999 (decimal).
13	En. 2 nd CS Y/N (N)_		[Y], [N]	Applicable only if control supports Central Station #1 and #2 Category Enable reporting for the LRR device (e.g., VISTA-128BP, FA1660C, etc.). Used if reporting to a second central station is desired. If [N], go to Prompt 17: "Device Address."
14	2 nd City ID (??)_		[01-99]	Enter the 2-digit secondary city ID, 01-99 (decimal).
15	2 nd CS ID (??)_		[01-FE]	Enter the 2-digit second central station's ID number, 01-FE (HEX).
16	2 nd Sub ID (????)_		[0001-9999]	Enter the 4-digit subscriber account number for the second central station, 0001-9999.
17	Device Address (03)_		[01-30]	 In ECP mode, the 7845GSM communicates with the panel as a Long Range Radio (LRR) device. Enter the appropriate ECP device address. For VISTA-10 and VISTA-20 series control panels, use address 03. For other controls, see the control panel's Installation and Setup Guide. NOTES: When programming the control, enable the LRR output. The device address must be unique from the "Direct Wire Addr" entered in Prompt 19.

	PROMPTS	ENTRY	OPTIONS	DESCRIPTION
18	Enable DW Y/N (N)_		[Y], [N]	Applies only to VISTA-128BP/250BP and FBP Series controls. Enables Direct Wire Downloading over GSM. If [N], skip to Prompt 20: "Supervision."
19	Direct Wire Addr (28)_		[01-30]	 When using Direct Wire downloading, the 7845GSM communicates with the panel as an alpha keypad to initiate the direct wire download session. Enter the appropriate device address. NOTES: This address must also be programmed as an alpha keypad in the control panel (Device Programming Mode). DO NOT connect an actual keypad (or any other device) assigned to this address. This address must be unique from the "Device Address" entered in Prompt 17.
20	Supervision (24 Hours)_		• 30 Day • 24 Hour • None	The AlarmNet network must hear at least one supervisory message from the module during this supervision period; otherwise, AlarmNet notifies the central station that a communication failure has occurred. (If the supervision period is changed after registration, you must re-register the module.) Press the [space] key to scroll through choices.
21	Old Alarm Time (10 Minutes)_		 10 Minutes 15 Minutes 30 Minutes 1 Hour 2 Hours 4 Hours 8 Hours 12 Hours 24 Hours 	The old alarm time sets how long an undeliverable alarm is retried for delivery to the central station. If the message is not validated, it is retried until the old alarm time is reached or the message is validated. Press the [space] key to scroll through choices.
22	GSM Flt Time (60 mins)_		[01-99] [00] = not used	In the event the module detects a communication path failure, enter the time delay (in minutes) before the module notifies the control panel with a trouble message (and trips the Fault Output if used; (terminal 11) see next prompt). The control panel can then notify the central station. UL NOTE: Must be two (02) minutes.
23	Flt Rel ON Y/N (N)_		[Y], [N]	If enabled, the fault open collector output is normally energized to ground, and de-energizes (open circuit) in the event of a module fault. For conditions that trip the fault relay refer to <i>Module Supervision Features</i> in Section 1. Set to [Y] if fail-safe mode is desired. See <i>Wiring for Module Fault Relay</i> in Section 2.
24	Pwr Loss Rpt Y/N (Y)_		[Y], [N]	Sends a primary power loss report to the central station within 1-3 hours after its detection. A restore report is sent within 1-3 hours after power is restored. UL NOTE: Must be set to "Y."

	PROMPTS	ENTRY	OPTIONS	DESCRIPTION
25	Low Bat Rpt Y/N (Y)_		[Y], [N]	Sends a low-battery report when a low battery condition exists.
				UL NOTE: Must be set to "Y" unless used with LynxR-I series controls. Must be set to "N" when using LynxR-I series controls.
26	Tamper Rpt Y/N (Y)_		[Y], [N]	Sends a tamper report when the module detects a tamper condition. A tamper restore is automatically sent when the tamper condition clears.
				UL NOTE: Must be set to "Y."

Important Information Regarding Zone Input Options

ECP mode supports two optional hardwire zone input triggers by making connections to the module's zone 6 and/or zone 7 terminals and programming the appropriate zone trigger options below.

Each zone input can be programmed to cause an alarm under one of the following conditions:

- \bullet (V+), where a positive voltage causes an alarm for normally low connections (voltage trigger, NO, NC)
- \bullet (V–), where a ground trigger causes an alarm for normally high connections (open collector, NO, NC)
- (EOLR) End of Line Resistor, where the input is supervised by a 2K EOL resistor. The zone can be triggered by open collector, voltage trigger, NO, NC.

In addition to the above, zones can be programmed for an Inverted Trigger, where the alarm and normal states of the zones are inverted; this can serve a fail-safe supervisory purpose for certain installations.

These zone inputs can also be programmed for restore reporting, and for delayed reporting, which allows time for the user to abort false alarms.

NOTE: Optional hardwire zones report in ADEMCO High-Speed format.

27	Enable Zn6 Y/N	[Y], [N]	Enables alarm reporting for zone 6.
	(N)_		If [N], skip to Prompt 32: "Enable Zn7."
28	Zn6 Trigger Type	• (V+)	Selects the triggering method for this zone input.
	(V+)_	• (V–)	Press the [space] key to scroll through choices.
		• (EOLR)	
29	Invert Zn6 Y/N (N)_	[Y], [N]	Inverts the alarm and normal states of the zone 6 trigger; otherwise uses normal input signal.
30	Restore Zn6 Y/N (Y)_	[Y], [N]	Enables restore reporting for zone 6.
31	Delay Zn6 (secs)	[01-15]	Defines the reporting delay in seconds for zone 6.
	(00)_	[00] = no delay	
32	Enable Zn7 Y/N	[Y], [N]	Enables alarm reporting for zone 7.
	(N)_		If [N], skip to Prompt 37: "Review."
33	Zn7 Trigger Type	• (V+)	Selects the triggering method for this zone input.
	(V+)_	• (V–)	Press the [space] key to scroll through choices.
		• (EOLR)	
34	Invert Zn7 Y/N	[Y], [N]	Inverts the alarm and normal states of the zone 7
	(N)_		trigger; otherwise uses normal input signal.
35	Restore Zn7 Y/N (Y)_	[Y], [N]	Enables restore reporting for zone 7.
36	Delay Zn7 (secs)	[01-15]	Defines the reporting delay in seconds for zone 7.
30	(00)_	[00] = no delay	· · · · · · · · · · · · · · · · · · ·

	PROMPTS	ENTRY	OPTIONS	DESCRIPTION
37	Review? Y/N		[Y] = review [N] = exit	 Reviewing Programming Mode Entries To review the programming options (to ensure that the correct entries have been made), press [Y]. The programming prompts are displayed again. Use the up/down arrow keys to scroll through the program fields without changing any of the values. If a value requires change, simply type in the correct value. When the last field is displayed, the "REVIEW?" prompt again appears. To exit the programming mode, press [N] in response to the "REVIEW?" prompt, and refer to <i>Exiting Programming Mode</i> paragraph at the end of this section.

ECP Status Codes

When the 7845GSM is configured for ECP mode, it sends status messages to the control panels for battery, power, tamper, and network connectivity failures. Some of the control panels, (e.g., VISTA-10P, VISTA-15P and VISTA-20P Series) display these on the keypad as "LngRng Radio" followed by a 4-digit code (listed in Table 4). In addition, the Contact ID codes (listed in Appendix A) for these conditions are sent to the central station by the module.

STATUS CODE	DESCRIPTION
0000	Control panel lost communication with 7845GSM.
0880	7845GSM tamper detected (cover removed).
0005	7845GSM has lost contact with AlarmNet-G network.
000F	7845GSM is not registered; account not activated.
0019	7845GSM shutdown.
0400	7845GSM power-on reset AND the control panel lost communications with 7845GSM.
0C80	7845GSM power on reset AND tamper detected.
0C8F	7845GSM power on reset AND tamper detected AND not registered.
08E0	7845GSM tamper detected and 7845GSM battery low.
3000	Primary power loss (will only be displayed in conjunction with another event).
8000	Battery charger failure (will only be displayed in conjunction with another event).
0060	Low battery (will only be displayed in conjunction with another event).

Table 4. Common ECP Keypad Display Status Codes

Alternative Modes (Zone Trigger, 4204 and Two-4204)

Zone Trigger Mode

There are six input zones available on the 7845GSM. Each zone is selectable for +V, -V, or EOLR trigger. The first zone input can detect both pulsed and steady signals if connected to a bell output. Additionally, the first zone input can be programmed to detect a single pulse (characteristic of a Panic indication on the Lynx, LynxR or LynxR-EN control panel by enabling the Lynx Panic option). If the programming option "Lynx Panic" is enabled, the 7845GSM reports an alarm on zone 3. No restores are reported for this zone. If this option is selected, the second physical zone input is ignored.

When using Zone Trigger mode, messages are sent in ADEMCO High-Speed format.

Zones 3, 4, 5, 6 and 7 are voltage trigger inputs located on TB1 pins 6-10. If the Lynx Panic feature is being used, do not connect zone 3 (the second physical zone input).

Refer to Table 5 for Zone Trigger Mode programming and follow the prompts that pertain to Zone Trigger Mode.

4204 Emulation Mode

In 4204 Emulation Mode, the 7845GSM communicates with a compatible Honeywell VISTA series or First Alert control panel as though it were a 4204 Relay Module. If two 4204s are enabled in the module, it acts as two 4204s at consecutive device addresses. The control panel must be configured to recognize one or two 4204 relay modules accordingly. On VISTA-32FB (or higher) control panels and First Alert equivalents, addresses 6 and 13 should not be used when the secondary 4204 is enabled. Messages are sent in ADEMCO High-Speed format.

NOTE: See your control panel Installation and Setup Guide for the number of 4204 modules supported. The LynxR-I does not support 4204 mode.

4204 Emulation Mode Options

For control panels that do not support LRR-ECP communication, the 4204 Emulation modes provide a means of sending up to eight unique reports based on defined system conditions. In 4204 mode, the 7845GSM functions as a logical 4204 Relay Module, where each relay number, referred to in the module as zone number, can be programmed to send a report based on the output function programmed in the control for that relay. Each relay-zone can also be programmed to send a restore message of the reported condition, can be set to delay transmission of messages, and can be programmed to send reports only when a conditional zone is triggered (armed), (see *Zone Input Options* later in this section).

In single 4204 mode, the 7845GSM supports up to four relay-zones. In Two-4204 mode, the 7845GSM functions as two 4204 modules, supporting up to eight relay-zones.

First 4204 Zones (device address entered in Prompt 13):	Second 4204 Zones (device address entered in Prompt 13, plus 1):
Relay $1 = $ Zone 1	Relay 1 = Zone 5
Relay $2 = \text{Zone } 2$	Relay $2 = $ Zone 6
Relay 3 = Zone 3	Relay $3 = $ Zone 7
Relay 4 = Zone 4 or conditional zone trigger if	Relay 4 = Zone 8 or conditional zone trigger if
"report only if armed" is selected in any zone 1-3	"report only if armed" is selected in any
when using single 4204 mode.	zone 1-7 when using Two-4204 mode.
NOTE: Zone 4 status is not reported when	NOTE: Zone 8 status is not reported when being
being used as the conditional (arming) trigger	used as the conditional (arming) trigger zone or if
zone.	tamper reporting is enabled.

4204 Relay Outputs map to 7845GSM zones as follows:

When using the 7845GSM in 4204 Emulation Mode, DO NOT enable the Long-Range Radio module reporting in the control panel programming. Instead, enable the module device address(es) and program the appropriate relay activation functions for the relay-zones being used. In some control panels, it is called "relay programming" and in others it is called "output device programming." It is recommended that "close and stay closed" (usually choice 2) action is selected. Selection of momentary activation will cause the 7845GSM to generate an alarm and NOT a restore, even if the 7845GSM is programmed to send a restore for the given zone.

In 4204 mode, messages are reported in ADEMCO High-Speed format. Zone alarms (status 7) are reported with "1" (alarm) or "3" (restore) displayed in the zone position for the respective zone (e.g. alarm on zone 2: 5155 5555 7; restore 5355 5555 7). A supervision fault trouble message is automatically sent if the module detects no activity on its connection to the control. The message is: 5555 5515 5; restore message is: 5555 5535 5.

Refer to Table 5 for 4204 Emulation Mode programming and follow the prompts that pertain to 4204 or Two-4204 mode. Check marks (\checkmark) indicate whether the prompt applies to that mode.

Alternative Mode Programming

Press the [ENTER] key to begin programming and follow the prompts for the mode of operation being programmed.

NOTE: The central station can remotely block access to	
local device programming. If this has been done,	Access to Prog
the following prompt appears:	Mode Denied

Table 5: Programming a 7845GSM for Zone Trigger, 4204 Emulation, or Two-4204 Emulation modes.

	PROMPTS	ZONE TRIG.	4204/ 2-4204	ENTRY	OPTIONS	DESCRIPTION
1	Strt Prog Mode? (Y/N)_	~	~		[Y], [N]	Enters programming mode.
2	Enter Password	~	~		[0-9, A-F, N, S, T, X, Y]	If a password has been previously assigned, this prompt appears. Enter a 4-digit password (0-9, A-F, N, S, T, X, Y). The next prompt appears.
3	Program 7845? (Y/N)_	~	~		[Y], [N]	To begin programming the module, press [Y] and go to Prompt 9: "Device Mode." To create a password if none has been assigned, press [N] and go to Prompt 4: "Create Password." To change an existing password, press [N] and go to Prompt 5: "Change Password."
4	Create Password? (Y/N)_	V	~		[Y], [N]	Passwords can be used to protect account and programming information. If no password has been assigned, this prompt appears after pressing [N] at the "Program 7845?" prompt. If a password is desired, press [Y] and go to Prompt 6: "Enter Password."
5	Change Password? (Y/N)	~	~		[Y], [N]	If a password has already been assigned, this prompt appears after pressing [N] at the "Program 7845?" prompt. Press [Y] if you want to change the password. NOTE: To clear an existing password, without entering a new one, answer [Y] to the "Change Password?" prompt, then press the [Enter] key when prompted for the new password and its confirmation.
6	Enter Password	~	~	1 1 1 1 1 1 1	[0-9, A-F, N, S, T, X, Y]	If [Y] was pressed in Prompt 4 or 5, this prompt appears. Enter a 4-digit password (0-9, A-F, N, S, T, X, Y).
7	Verify Password	~	~		[0-9, A-F, N, S, T, X, Y]	Re-enter the password as confirmation. If the password doesn't match the first entry, the following is displayed followed by the "Exit Prog. Mode?" prompt: Verify Not OK PSWD not created Otherwise, the "Exit Prog. Mode?" prompt is displayed directly.

	PROMPTS	ZONE TRIG.	4204/ 2-4204	ENTRY	OPTIONS	DESCRIPTION
8	Exit Prog. Mode? (Y/N)_	~	~		[Y], [N] [ESC]	Exits program mode. Press [N] to go back to Prompt 3. Press [ESC] to load factory defaults. Refer to the <i>Exiting Programming Mode</i> paragraph in this Section.
9	Device Mode (ECP)_	~	~		 ECP Zone Trig. 4204 Emu Two 4204s 	Press the [space] key to scroll through the modes of operation. Press [ENTER] to select the mode of operation. See <i>Table 3</i> for ECP mode programming.

Important Information Regarding Primary Account (Questions 10-12)

Account information is provided by the central station administrator.

10	Primary City ID (??)_	~	~	[01-99]	Enter the 2-digit primary city ID, 01-99 (decimal).
11	Primary CS ID (???)	~	~	[01-FE]	Enter the 2-digit primary central station ID number, 01-FE (HEX).
12	Primary Sub ID (????)	~	~	[0001-9999]	Enter the 4-digit subscriber account number, 0001- 9999 (decimal).
13	Device Address (12)_		~	[01-15]	 The 7845GSM communicates with the control panel as a 4204 relay module. Enter the appropriate address. For VISTA-10P and FA130CP Series control panels, this must be address 12. For other controls, see the control panel's Installation and Setup Guide. NOTES: 1. The 4204 protocol limits address range to 01-15. If using 2-4204 mode, the 7845GSM assigns the second 4204 to the next higher device address (e.g., if entering address 12 for the first 4204, then address 13 is automatically assigned to the second 4204 module). Program the control panel accordingly. 2. The device address(es) must be unique from the "Direct Wire Addr" entered in Prompt 15 and any other address used on the control panel.
14	Enable DW Y/N (N)_		۷	[Y], [N]	Applies only to VISTA-128BP/250BP and FBP Series controls, and FA1660C and 1700C Series controls. Enables Direct Wire Downloading over GSM. If [N], skip to Prompt 16: "Supervision."
15	Direct Wire Addr (28)_		~	[01-30]	 When using Direct Wire downloading, the 7845GSM communicates with the panel as an alpha keypad to initiate the direct wire download session. Enter the appropriate device address. NOTES: This address must also be programmed as an alpha keypad in the control panel (Device Programming Mode). DO NOT connect an actual keypad (or any other device) assigned to this address. This address must be unique from the "Device Address" entered in Prompt 13, and cannot equal that device address plus 1 (one) if using 2-4204 mode.

	PROMPTS	ZONE TRIG.	4204/ 2-4204	ENTRY	OPTIONS	DESCRIPTION
16	Supervision (24 Hours)_	~	۷		• 30 Day • 24 Hrs • None	The AlarmNet network must hear at least one supervisory message from the module during this supervision period; otherwise, AlarmNet notifies the central station that a communication failure has occurred. (If the supervision period is changed after registration, you must re-register the module.) Press the [space] key to scroll through choices.
17	Old Alarm Time (10 Minutes)_	~	~		 10 Min 15 Min 30 Min 1 Hr 2 Hrs 4 Hrs 8 Hrs 12 Hrs 24 Hrs 	Sets how long an undeliverable alarm is retried for delivery to the central station. If the message is not validated, it is retried until the old alarm time is reached or the message is validated. Press the [space] key to scroll through choices.
18	GSM FIt Time (60 mins)_	~	~		• 24 Hrs [01-99] [00] = not used	In the event the module detects a communication path failure, enter the time delay (in minutes) before the module notifies the control panel with a trouble message (and trips the Fault Output if used (terminal 11); see next question). The control panel can then notify the central station.
19	Fit Rei ON Y/N (N)_	~	~		[Y], [N]	If enabled, the fault open collector output is normally energized to ground, and de-energizes (open circuit) in the event of a module fault. For conditions that trip the fault relay refer to <i>Module</i> <i>Supervision Features</i> in Section 1. Set to [Y] if fail-safe mode is desired. See <i>Wiring for Module Fault Relay</i> in Section 2.
20	Pwr Loss Rpt Y/N (Y)_	~	~		[Y], [N]	UL NOTE: Must be set to "Y". Sends a primary power loss report to the central station within 1-3 hours after its detection. A restore report is sent within 1-3 hours after power is restored. UL NOTE: Must be set to "Y."
21	Low Bat Rpt Y/N (Y)_	~	۷		[Y], [N]	Sends a low-battery report when a low battery condition exists. A low-battery restore is automatically sent when the low battery condition clears. UL NOTE: Must be set to "Y" unless used with LynxR-I series controls. Must be set to "N" when using LynxR-I series controls.
22	Tamper Rpt Y/N (Y)_	~	~		[Y], [N]	Sends a tamper report when the module detects a tamper condition. A tamper restore is automatically sent when the tamper condition clears.

	PROMPTS	ZONE TRIG.	4204/ 2-4204	ENTRY	OPTIONS	DESCRIPTION
23	Lynx Panic Y/N (Y)_	~			[Y], [N]	Applies only if used with a Lynx, LynxR or LynxR-EN control LRR trigger connected to the module's zone terminal. Reports a Panic alarm on zone 3 when the module detects a single pulse on zone 1. No restores are generated for a Panic alarm.

Important Information Regarding Zone Input Options

If desired, **4204 mode** supports two optional hardwire zone input triggers by making connections to the module's zone 6 and/or zone 7 terminals and programming the appropriate zone trigger options below.

NOTE: These triggers are not available when using 2-4204 mode.

Zone Trigger Mode provides six hardwire zone input triggers by making connections to the module's zone terminals and programming the appropriate zone trigger options below. Zones are numbered 1-7, with zone 2 serving as a reporting zone only (see Bell Output Zone below).

Bell Output Zone 1 (and 2): The zone 1 terminal can detect both pulsed and steady signals. If connecting the bell output to the 7845GSM zone causes a bell fault on the control panel, enable the "Trip Inputs 1or2" option. The 7845GSM reports an alarm on zone 1 (fire) when it detects a pulsed signal and an alarm on zone 2 (burglary) when it detects a steady signal.

Telco Zone and Open/Close Zone: Dedicated zones can be assigned as the telco fault zone and/or an open/close (arm/disarm) reporting zone. When triggered, these zones report a telco line fault or open/close report respectively, in ADEMCO High-Speed format. Connect the appropriate trigger from the control to the selected zone input for each of these options.

Input Trigger Types: Triggering of each zone input can be programmed to cause an alarm under one of the following conditions:

- (V+), where a positive voltage causes an alarm for normally low connections (voltage trigger, NO, NC)
- (V-), where a ground trigger causes an alarm for normally high connections (open collector, NO, NC)
- (EOLR) End of Line Resistor, where the input is supervised by a 2K EOL resistor. The zone can be triggered by open collector, voltage trigger, NO, NC.

Inverted Trigger: Zones can be programmed for inverted trigger, where the alarm and normal states of the zones are inverted; this can serve a fail-safe supervisory purpose for certain installations.

Restore and Delayed Reports: Zone inputs can be programmed for restore reporting, and for delayed reporting (allowing time for the user to abort false alarms).

UL NOTE: Zone restoral must be enabled.

Report Only if Armed option: To help eliminate redundant reports, zone alarms can be restricted to report only if a conditional zone is triggered (armed). If this feature is desired, the conditional zone is automatically used as the "arming" zone. Connect the appropriate control panel trigger to the conditional (arming) zone. The trigger must be programmed as necessary in the control panel.

The conditional (arming) zone on the module is a different dedicated zone for each programming mode, as follows: ~

Mode	Conditional (Arming) Zone
Zone Trigger	7
4204	4
2-4204	8

....

. . .

IMPORTANT: If any zone (zones 1-6 in zone trigger mode, zones 1-3 in 4204 mode, zones 1-7 in 2-4204 mode) is set for Report Only if Armed, the conditional (arming) zone becomes unavailable for reporting (as it is reserved for the "arming" trigger connection).

24	Trip Inputs 1or2 w/Bell Out (N)_	~		[Y], [N]	Use if the zone 1 connection to the control's bell output causes a bell fault on the control panel.
		ļ			NOTES:
		į	i i		1. If used, EOLR trigger type is not available
		!	1		for zones 1 and 3.
		i.	i i		2. Do not use with Lynx controls.
		i	<u>i i</u>		2. Bo not also with Lynk controls.

	PROMPTS	ZONE TRIG.	4204/ 2-4204	ENTRY	OPTIONS	DESCRIPTION
25	Telco Zone (0)_	>	~		Zone Trig: [3-7] 4204: [1-4] 2-4204: [1-8] [0] = not used	 See "Important Information Regarding Zone Input Options" on previous page. Enter the zone number to be used for telco line fault reports. This zone assignment must be unique from the open/close zone selected in Prompt 26. Zone Trigger Mode: If any zone is programmed for "report only if armed," zone 7 cannot be used. If Lynx Panic is enabled, zone 3 cannot be used. 4204 Mode: If any zone is programmed for "report only if armed," zone 4 cannot be used as a telco zone. 2-4204 Mode: If any zone is programmed for "report only if armed," or if tamper reporting is enabled, zone 8 cannot be used. NOTE: Connect the telco line fault output (or relay output programmed for "telco line fault") to the telco zone.
26	Open/Close Zone (0)_	~	~		Zone Trig: [3-7] 4204 : [1-4] 2-4204: [1-8] [0] = not used	 Enter the zone number to be used for open/close (arm/disarm) reports. This zone assignment must be unique from the telco zone selected in Prompt 25. Zone Trigger Mode: If any zone is programmed for "report only if armed," zone 7 cannot be used. If Lynx Panic is enabled, zone 3 cannot be used. 4204 Mode: If any zone is programmed for "report only if armed," zone 4 cannot be used as an open/close zone. 2-4204 Mode: If any zone is programmed for "report only if armed," or if tamper is enabled, zone 8 cannot be used. NOTE: Connect an open/close (arm/disarm) trigger (or relay output) from the control panel to the open/close zone.
27	Zn1 Trigger Type (V+)_	~			• (EOLR) • (V+) • (V-)	Selects the triggering method for this zone input. Press the [space] key to scroll through choices.
28	Restore Zn1 Y/N (Y)_	~	~		[Y], [N]	Enables restore reporting for zone 1.
29	Delay Zn1 (secs) (00)_	~	~		[01-15] [00] = no delay	Defines the reporting delay in seconds for zone 1.
30	Rpt Zn1 ONLY if Armed (N)_	~	~		[Y], [N]	Reports alarms on zone 1 ONLY if the conditional zone (zone 7 in zone trigger mode; zone 4 in 4204 mode; or zone 8 in 2-4204 mode) is triggered (armed). If [N], always reports alarms on zone 1.
31	Invert Zn2 Y/N (N)_	~			[Y], [N]	Inverts the alarm and normal states of the zone 2 trigger; otherwise uses normal input signal.

$7845 GSM/7845 GSMCN \ Installation \ and \ Setup \ Guide$

	PROMPTS	ZONE TRIG.	4204/ 2-4204	ENTRY	OPTIONS	DESCRIPTION
32	Restore Zn2 Y/N (Y)_	~	~		[Y], [N]	Enables restore reporting for zone 2.
33	Delay Zn2 (secs) (00)_	~	~		[01-15] [00] = no delay	Defines the reporting delay in seconds for zone 2.
34	Rpt Zn2 ONLY if Armed (N)_	~	V		[Y], [N]	Reports alarms on zone 2 ONLY if the conditional zone (zone 7 in zone trigger mode; zone 4 in 4204 mode; zone 8 in 2-4204 mode) is triggered (armed). If [N], always reports alarms on zone 2.

If Lynx Panic is enabled, then skip to Prompt 39: "Rpt Zn3 ONLY if Armed."

35	Zn3 Trigger Type (V+)_	~		• (EOLR) • (V+) • (V_)	Selects the triggering method for this zone input. Press the [space] key to scroll through choices.
36	Invert Zn3 Y/N (N)_	~		[Y], [N]	Inverts the alarm and normal states of the zone 3 trigger; otherwise uses normal input signal.
37	Restore Zn3 Y/N (Y)_	۷	•	[Y], [N]	Enables restore reporting for zone 3.
38	Delay Zn3 (secs) (00)	~	~	[01-15] [00] = no delay	Defines the reporting delay in seconds for zone 3.
39	Rpt Zn3 ONLY if Armed (N)_	~	~	[Y], [N]	Reports alarms on zone 3 ONLY if the conditional zone (zone 7 in zone trigger mode; zone 4 in 4204 mode; zone 8 in 2-4204 mode) is triggered (armed).
					If [N], always reports alarms on zone 3. 4204 mode: If any zone is programmed to "Report Only if Armed," skip to Prompt 50: "Enable Zn6."
40	Zn4 Trigger Type (V+)_	~		• (EOLR) • (V+) • (V-)	Selects the triggering method for this zone input. Press the [space] key to scroll through choices.
41	Invert Zn4 Y/N (N)_	~		[Y], [N]	Inverts the alarm and normal states of the zone 4 trigger; otherwise uses normal input signal.
42	Restore Zn4 Y/N (Y)_	~	~	[Y], [N]	Enables restore reporting for zone 4.
43	Delay Zn4 (secs) (00)	~	~	[01-15] [00] = no delay	Defines the reporting delay in seconds for zone 4.
44	Rpt Zn4 ONLY if Armed (N)_	~	2- 4204 only	[Y], [N]	Reports alarms on zone 4 ONLY if the conditional zone (zone 7 in zone trigger mode; zone 8 in 2-4204 mode) is triggered (armed).
		 			If [N], always reports alarms on zone 4.
45	Zn5 Trigger Type (V+)_	~		• (EOLK) • (V+) • (V-)	Selects the triggering method for this zone input. Press the [space] key to scroll through choices.
46	Invert Zn5 Y/N (N)_	~		[Y], [N]	Inverts the alarm and normal states of the zone 5 trigger; otherwise uses normal input signal.

	PROMPTS	ZONE TRIG.	4204/ 2-4204	ENTRY	OPTIONS	DESCRIPTION
47	Restore Zn5 Y/N (Y)_	~	2- 4204 only		[Y], [N]	Enables restore reporting for zone 5.
48	Delay Zn5 (secs) (00)_	~	2- 4204 only		[01-15] [00] = no delay	Defines the reporting delay in seconds for zone 5.
49	Rpt Zn5 ONLY if Armed (N)_	~	2- 4204 only		[Y], [N]	Reports alarms on zone 5 ONLY if the conditional zone (zone 7 in zone trigger mode; zone 8 in 2-4204 mode) is triggered (armed).
		1	i I I		i I I	If [N], always reports alarms on zone 5.
50	Enable Zn6 Y/N (N)_		4204 only		[Y], [N]	Enables alarm reporting for zone 6.
			onij	, , ,		
51	Zn6 Trigger Type (V+)_	~	4204 only		• (EOLR) • (V+)	Press the [space] key to scroll through choices.
			:		• (V–)	
52	Invert Zn6 Y/N (N)_	~	4204 only		[Y], [N]	Inverts the alarm and normal states of the zone 6 trigger; otherwise uses normal input signal.
53	Restore Zn6 Y/N (Y)_	~	~		[Y], [N]	Enables restore reporting for zone 6.
54	Delay Zn6 (secs) (00)	~	~	1	[01-15]	Defines the reporting delay in seconds for zone 6.
					[00] = no delay	
55	Rpt Zn6 ONLY if Armed (N)_	~	~		[Y], [N]	Reports alarms on zone 6 ONLY if the conditional zone (zone 7 in zone trigger mode; zone 4 in 4204 mode; zone 8 in 2-4204 mode) is triggered (armed).
		-	1 1 1			If [N], always reports alarms on zone 6.
56	Enable Zn7 Y/N (N)_		4204 only		[Y], [N]	Enables alarm reporting for zone 7, if used. If [N], skip to Prompt 64: "Review."
57	Zn7 Trigger Type	~	4204		• (EOLR)	Selects the triggering method for this zone input.
	(V+)_		only		• (V+) • (V–)	Press the [space] key to scroll through choices.
58	Invert Zn7 Y/N (N)_	~	4204 only		[Y], [N]	Inverts the alarm and normal states of the zone 7 trigger; otherwise uses normal input signal.
59	Restore Zn7 Y/N (Y)_	~	~		[Y], [N]	Enables restore reporting for zone 7. Zone Trigger mode: This question will only be displayed if zone 7 is not used as the conditional (arming) trigger zone.
60	Delay Zn7 (secs) (00)_	~	۷		[01-15] [00] = no delay	Defines the reporting delay in seconds for zone 7. Zone Trigger mode: This question will only be displayed if zone 7 is not used as the conditional (arming) trigger zone.
61	Rpt Zn7 ONLY if Armed (N)_		~		[Y], [N]	Reports alarms on zone 7 ONLY if the conditional zone (zone 4 in 4204 mode; zone 8 in 2-4204 mode) is triggered (armed). If [N], always reports alarms on zone 7. 2-4204 mode: If any zone is programmed to "Report Only if Armed," or if tamper is enabled, skip to "Review."

	PROMPTS	ZONE TRIG.	4204/ 2-4204	ENTRY	OPTIONS	DESCRIPTION
62	Restore Zn8 Y/N (Y)_		2- 4204 only		[Y], [N]	Enables restore reporting for zone 8.
63	Delay Zn8 (secs) (00)_		2- 4204 only	 	[01-15] [00] = no delay	Defines the reporting delay in seconds for zone 8.
64	Review? Y/N	~	~		[Y] = review [N] = exit	Reviewing Programming Mode Entries To review the programming options (to ensure that the correct entries have been made), press [Y]. The programming questions are displayed again. Use the up/down arrow keys to scroll through the program fields without changing any of the values. If a value requires change, simply type in the correct value. When the last field is displayed, the "REVIEW?" question again appears. To exit the programming mode , press [N] in response to the "REVIEW?" question, and refer to <i>Exiting Programming Mode</i> below.

Exiting Programming Mode

To exit the programming mode, press [N] in response to the "REVIEW?" question. Then press [Y] to the "Exit Prog Mode?" question. Upon exiting, the root file is updated to log the changes made. A message is displayed telling the user that this step is being executed. When complete, the message "DONE" is displayed to indicate the file was successfully uploaded.

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If critical configuration changes were made, such as the mode of operation, the 7845GSM will reset to ensure that the programming features are enabled.

If the file is not successfully uploaded, one of the following prompts will be displayed. Follow the steps shown below until the upload is successful.

Display	Description	What to do
Cannot Upload	GSM module is not yet initialized.	Wait for RSSI LEDs to be lit.
Try Again? Y/N_		Press [Y].
Failed to Update	Network problem, or you	Initiate the Force Server Update
Root File!	answered "N" to "Cannot Upload Try Again?" prompt	command by pressing the [0] key; refer
	Try figani. prompt.	Commands.

Setting Factory Defaults

To reset the programming options to factory-default values, press [ESC] at the "Exit Prog Mode?" prompt.

Set Default? Y/N_

Press [Y] to reset factory default values.

Press [N] to cancel this function.

If you press [Y], all programmed values are reset to the original factory settings. PLEASE NOTE THAT THIS WILL ERASE ANY PASSWORD THAT MAY HAVE BEEN ENTERED. After pressing [Y], the Create Password prompt appears (see Prompt 4).

$S \ E \ C \ T \ I \ O \ N \quad 4$

Registration

In This Section • Registering the 7845GSM

Registering the 7845GSM

Once you have initialized and programmed the 7845GSM, it must be registered to enable the account. An unregistered 7845GSM is indicated on the Status Display as: Status lit, Message slow blinking, and Fault not lit.

STATUS, GREEN	
MESSAGE, YELLOW	
FAULT, RED	\bigcirc

Figure 11. Unregistered 7845GSM Status Display In Normal Operation

Throughout this document, the following key is used to describe LED state:



Figure 12. LED Key

Upon completion of the registration process, a 7845GSM transmits a registration message and receives a registration validation indicating that the account is now enabled. Wait for the "Registration Success" message to appear, regardless of the registration method used.

You can register the 7845GSM by one of the following methods:

- Through the AlarmNet Direct website
- Through use of the Tamper Switch
- Through use of a 7720P Programming Tool
- By phone

Registering through AlarmNet Direct Website

The 7845GSM can be registered through the Alarmnet Direct Website. To program the module via the website (if you are already signed up for this service), go to: https://services.alarmnet.com/AlarmNetDirect/userlogin.aspx.

Log in and follow the on-screen prompts.

If you are not signed up for this service, click on "Dealer Signup" from the login screen to gain access to the Honeywell web-based programming.

Dealer Sign-Up Direct Link: <u>https://services.alarmnet.com/AlarmNetDirectP_Sign-Up</u>.

You will be instructed how to proceed upon completing the sign-up form. Only one sign-up per dealer is required. Once an initial user is established, additional logins may be created by that user.

NOTE: Central Stations sign up by contacting AlarmNet Administration at 800-222-6525 option 3.

Please have the following information available when programming the device:

- 1. Primary City ID (two-digit number)
- 2. Primary Central Station ID (two-digit hexadecimal number)
- 3. Primary Subscriber ID (four-digit number)
- 4. MAC ID and MAC CRC number (located on outside of box and on label inside module) or MIN number of the device you are replacing.
- 5. Mode of operation of existing module if replacing a "C" series radio.

Once module is registered, you may log out of the AlarmNet Direct website.

Using the Tamper Switch

Initiate the registration sequence by clicking the Tamper Switch three times.

You can monitor the registration process by viewing the Status Display. The Message (yellow) LED and the Status (green) LED will blink slowly in unison while registration is in progress.

Once the registration has been completed successfully, the 7845GSM enters normal operating mode; the Status (green) LED goes out and the Message (yellow) LED is lit to indicate that the power-on / reset message is waiting to be sent. This message will appear at the receiving station as "E339 8xx", where "xx" is the ECP device address. The description may read "Trouble – Exp. Mod. Reset". If registration is not validated within 90 seconds, the 7845GSM times out, and the (green) LED will be lit (solid).

The power-on/reset message will be sent in Ademco High-Speed format if the module is programmed for zone trigger, 4204 or 2x4204 modes.

Using the Programming Tool

The interactive registration feature allows the installer to register the 7845GSM through a series of keyboard commands on the 7720P Programming Tool. This method of registration lets the installer monitor the registration process.

Registering	

Registration	
SUCCESS	

Once the installation is complete, press the $[\uparrow]$ key on the 7720P. The registration message is sent and the unit waits for the acknowledgment.

If this is a new installation and the city, central station, and customer numbers have been correctly entered, the 7845GSM is registered and this message is displayed. The 7845GSM is now in full service and available for alarm reporting to the central station.

Possible Errors

Registration BAD Timed Out	Displayed if no response to the registration request is received.
Registration BAD Pri Sub ID BAD	Indicates the city, central station, or customer number for the labeled account(s) is not accepted. The ID information was either entered in error, or the central station failed to pre-authorize programmed ID numbers
Registration BAD	with AlarmNet customer service. Indicates the city, central station, or customer number
2nd Sub ID BAD	for the Secondary account is not accepted. The ID information was either entered in error, or the central station failed to pre-authorize programmed ID numbers with AlarmNet customer service.
Registration BAD Pri&Sec – IDs BAD	Displayed when both primary and secondary subscriber IDs are invalid.
Registration BAD Pri ID – Need PIN	Displayed if this is a repair/replacement, or an error was made in programming the Primary account information of 7845GSM for an existing account. This prompt appears for 2 seconds. See the <i>Replacing an existing</i> <i>module</i> section below for further displays.
Registration BAD 2nd ID – Need PIN	This prompt is displayed if this is a repair/replacement, or an error was made in programming the Secondary account information of 7845GSM for an existing account. This prompt appears for 2 seconds. See the <i>Replacing</i> <i>an existing module</i> section below for further displays.
Registration BAD Pri&2nd – Need PIN	This prompt is displayed if this is a repair/replacement, or an error was made in programming BOTH the Primary and Secondary account information of 7845GSM for an existing account. This prompt appears for 2 seconds. See the <i>Replacing an existing module</i> section below for further displays.

Replacing an existing module using the programming tool

Enter PIN#	This prompt appears after pressing the down arrow $[\downarrow]$ on the 7720P. Enter a 4-digit alphanumeric PIN number provided by your central station, your dealer or an authorized AlarmNet representative.	
	NOTE: If you are replacing an existing "C Series" radio, you can enter the last four-digits of the "C Series" MIN number.	
	Press the [ENTER] key.	
Registering	The registration message is sent and the unit waits for acknowledgement.	
Registration SUCCESS	If the PIN is valid, the new 7845GSM is registered and the old unit unregistered. Additionally, AlarmNet sends a substitution alarm to the central station.	

Regist	tration	BAD
- 3 -		

If you entered an invalid PIN, the appropriate message is displayed depending on which account number is being replaced (see above for exact wording). The registration process is repeated.

NOTE: Each attempt causes a substitution alarm to be sent to the central station.

Register by Phone

You can register the module by calling the AlarmNet Technical Assistance Center (TAC) at 1-800-222-6525.

You will need the following information:

- MAC number (found on the label).
- Subscriber information (provided by the central station), including a city code, CSID, and a subscriber ID.
- When instructed to do so, triple-click the tamper switch to complete the registration.

Programmer Keyboard Commands

Programmer Keyboard Commands

Programmer keyboard commands can be used to quickly view your connectivity settings and options. Most commands require you to press the [shift] key and then the designated command key. (See the keys designated in red on the 7720P Programming Tool.)

[A]	7845GSM	Software Revision
	x.x.xx mm/dd/yy	"x.x.xx" indicates the installed software Revision.
		Mm/dd/yy indicates month, day and year of the revision.
Module Identific	ation Displays	
[B]	MAC xxxxxxxxxxxx	MAC Address
	MAC CRC yyyy	"xxxxxxxxxxxx" indicates the 7845GSM's unique identification number.
		"yyyy" indicates the MAC CRC number. This number is also found on the label on the module, as well as the label on the box.
		Press the [space] key to go to the next field.
		Press the [backspace] key to go to the previous field.
	SCID xxxxx xxxxx	SCID Display
	xxxxx xxxxx	Displays the identification number assigned to the SIM card (SCID) in this device.
		Press the [space] key to go to the next field.
		Press the [backspace] key to go to the previous field.
	IMEI xxxxxxxx	IMEI Display
	XXXXXX X	Displays the identification number assigned to the GSM module in this device.
		Press the [space] key to get the MAC Address.
		Press the [backspace] key to go to the previous field.
[C]	Mon 01 Jan 2001	Time
	05:48:39 am	Retrieves the current date and time from the AlarmNet network in Greenwich Mean Time (GMT). This display confirms that the module is in sync with network.

GSM Status Disp	plays	
[E]	PriRSSI GPRS REG -xxxdbm x x	GSM Status Display Screen 1 PriRSSI – Primary Site RSSI level in dbm GPRS – GPRS Service availability where "x" can be: "Y" if GPRS is available "N" if GPRS is Not available REG – Registration status from radio module where "x" can be: N – Not Registered H – Registered Home S – Searching D – Registration Denied R – Registered Roaming
	Cntry Netw LAC xxx xxx xxxxx	 ? – Unknown Registration State Press the [space] key to go to the next screen. Press the [backspace] key to go to the last screen. GSM Status Display Screen 2 Cntry – Country Code Nature Natural Code
	Cell BaseSt Chan	LAC – Local area code Press the [space] key to get to the next screen. Press the [backspace] key to go to the previous field. GSM Status Display Screen 3
	XXXXX X XXX	Cell – Base Station ID BaseSt – Base Station Antenna Sector Chan – Control Channel in use Press the [space] key to go to the next screen. Press the [backspace] key to go to the previous field.
	Second Site RSSI -xxxdbm	GSM Status Display Screen 4 Secondary GSM Site RSSI level in dbm. Press the [space] key to go to the GSM Status Display Screen 1. Press the [backspace] key to go to the previous field.
[S]	System Status Displays ECP 67 TmPB Flt xx 5 ++ OK	ECP Mode Displays the zone and system fault status. Press the [space] key to go to the next field. Press the [backspace] key to go to the previous field.

4204 Emulation Mode

Displays the zone and system fault status. Press the [space] key to go to the next field. Press the [backspace] key to go to the previous field.

1234 67 TmPB Flt 5555 xx 5 ++ OK

12345678 TmPB Flt	Two-4204 Emulation Mode		
55555555 5 ++ OK	Displays the zone and system fault status.		
	Press the [space] key to go to the next field.		
	Press the [backspace] key to go to the previous field.		
1234567 TmPB Flt	Zone Trigger Mode		
5555555 5 ++ OK	The status of the 7845GSM can be viewed on the 7720P. The status display includes:		
	• Zone input status (1234567) - the		
	numbers 1-7 represent the 7 mappings of the zone input, and follow Honeywell's ADEMCO high-speed format codes: 1 = New Event 5 = Normal		
	 Tm – Tamper status follows high-speed 		
	format codes above.		
	 P – Represents line voltage as follows: + = Power line voltage OK - = Power line voltage bad and reported 		
	V = Power line voltage bad, not reported (reporting window not expired) ^ = Power voltage restored, not yet reported		
	 B – Represents battery condition as follows: B – Rettern voltage acceptable 		
	+ = Battery voltage acceptable - = Battery voltage below 5.7V ±5%		
	• Flt – Represents radio faults:		
	OK = Normal ; No fault		
	G = No network connectivity over GSM and fault time has expired.		
	g = No network connectivity over GSM and fault time has NOT yet expired.		
	NOTE: The 7720P will not operate if the power line		
	Rottom Voltage Display		
Bat NLd: x.xxV	Battery Voltage Display		
Dai Lu. X.XXV	7845GSM can be viewed on the 7720P. The first line of the display shows the voltage level of the battery with no load The second line of the display shows loaded battery voltage. An asterisk (*) next to the voltage		
	indicates that this is below the accepted level.		
	Press the [space] key to go to the next field.		
	Press the [backspace] key to go to the previous field.		
Battery Charger	Battery Charger Status Display		
OK	The status of the battery charger circuit of the 7845GSM can be viewed on the 7720P. The status is either OK or NOT OK.		
	Press the [space] key to go to the next field.		

		Press the [backspace] key to go to the previous field.
	Line Voltage	Line Voltage Display
	xx.xxV	The line voltage of the 7845GSM can be viewed on the 7720P. An asterisk (*) next to the voltage indicates that this is below the accepted level.
		Press the [space] key to go back to the System Status Display.
		Press the [backspace] key to go to the previous field.
[Τ]	Test Msg Sent	Test Alarm Sends a Test alarm to AlarmNet. Functional for a <i>registered</i> 7845GSM only. If the device is not registered, a message is displayed indicating that the command cannot be executed.
		NOTE: If two CSIP's are used, test alarms are sent to each central station. In addition, if the primary fails to report, a second (backup) message is sent to the secondary station.
[X]	Reset CPU Y/N	Reset the 7845GSM. Pressing [N] returns to normal mode.
		Pressing [Y] resets the device.
[1] (UP arrow)	Registering	Registration Registers a programmed 7845GSM with AlarmNet.
[↓] (DN arrow)	Enter PIN#	Registration with PIN for Replacement Module Registers a replacement 7845GSM with AlarmNet, once programmed, using the existing PIN #.
[0]	Force Server Update?	Force Upload of Configuration File to Server
	Y/N	Pressing [Y] will force the device to upload its entire configuration file to the server.
		Pressing [N] cancels the operation.
		NOTE: If the GSM module is not initialized when you enter this command, the following screen will be displayed:
		Cannot Upload Try Later! _
		Wait for the RSSI LEDs to light, indicating the GSM module has completed its initialization, and try again.
[ENTER]	Strt Prog Mode? Y/N_	Enter Program Mode Press [Y] to enter program mode; otherwise, press [N].

S E C T I O N 6

Appendices

Appendix A: Summary of LED Operation

7845GSM Status Display Operation

The 7845GSM Status Display has three LEDs used to indicate message and device status:

- STATUS, green
- MESSAGE, yellow
- FAULT, red



Figure 13. 7845GSM Status Display LEDs with Front Cover Installed

Each LED can have four different states - ON, OFF, FAST BLINK and SLOW BLINK. Throughout this document, the following key is used to describe LED state:



LED COLOR	LED	DESCRIPTION		
GREEN	STATUS	ON – 7845GSM is NOT registered with AlarmNet.		
		OFF – 7845GSM is registered with AlarmNet.		
		FAST BLINK – Download session with Compass in progress.		
		SLOW BLINK – In unison with yellow LED – Registration in progress.		
YELLOW	MESSAGE	ON – Message transmission pending.		
		QUICK PERIODIC BLINK - Normal		
		FAST BLINK – Message waiting for network ACK.		
		SLOW BLINK – Idle, power abnormal.		
		– In unison with green LED – Registration in		
		progress.		
RED	FAULT	ON – No contact with network.		
		OFF– Normal.		
		SLOW BLINK – Loss of communication with the panel (ECP fault).		
		FAST BLINK – No network contact AND loss of communication with the panel.		
ALL		FAST BLINK – In unison with the RSSI Bar Graph LEDs –		
		Hardware Error. Call the AlarmNet Technical		
		Assistance Center.		

Table 6. Status Display Operation



Figure 15. A Registered 7845GSM Status Display (A) and an Unregistered 7845GSM Status Display in Normal Operating State(B)



Figure 16. LED Sequence for a Registered 7845GSM Message Transmission

Signal Strength (RSSI) / Mode and Status LEDs

The Signal Strength (RSSI) / Mode and Status LEDs normally display the module's signal strength. LED 1 (red LED on the left) will be lit to indicate that the display is in RSSI mode, and the other LEDs indicate signal strength (lowest to highest, from left to right) between the module and the receiving tower. Signal strength should be within 3-5 bars.

Mode and Status Indicator Switch

Press and hold the Mode and Status Indicator Switch to change the LED functions in order to view the mode of operation and network carrier status. When the switch is held down, LED 1 (red LED on the left) will be off, and the LEDs from left to right have the following meanings:

Table 7. LED Functions with Mode and Status Indicator Switch DepressedOperation Modes (Table 7a)Status Indications (Table 7b)

	I		1 1		
LED 1 (red)	LED 2 (yellow)	LED 3 (yellow)	LED 4 (green)	LED 5 (green)	LED 6 (green)
Off=Mode and Status indicator	Operation Mode (in combination with LED 3)	Operation Mode (in combination with LED 2)	Not Used	GPRS Service	GSM Module Registration with Network Carrier

(see below for specific modes and status indications)

Table 7a. Operation Modes

OPERATION MODE	LED 2 (1 st yellow)	LED 3 (2 nd yellow)	
ECP	OFF	OFF	
Zone	ON	OFF	
4204	OFF	ON	
2 - 4204	ON	ON	

Table 7b. Status Indications

STATUS	LED 4 (1 st green)	LED 5 (2 nd green)	LED 6 (3 rd green)
OFF	Normal	No GPRS service available	GSM module not registered with network carrier
SLOW BLINK	_	_	GSM module registered—second site available–low signal strength
NORMAL BLINK	_	_	GSM module registered—second site available–acceptable signal strength
FAST BLINK	_	GPRS in use by device	GSM module registered—second site available–excellent signal strength
ON	Not Used	GPRS service available	GSM module registered—no second site available

Appendix B: Central Station Messages

The following messages are sent by the 7845GSM module for the conditions listed below.

Alarm Condition	ECP Mode Alarm Code	ECP Mode Restore Code	Zone and 4204 Modes Alarm Code	Zone and 4204 Modes Restore Code	
Power On Reset	E339 C08xx*		$5551\ 5555\ 6$		
Tamper	E341 C08xx*	R341C 08xx*	$5555\ 5551\ 7$	5555 5553 7	
Power Loss	E337 C08xx*	R337 C08xx*	$1555\ 5555\ 6$	3555 5555 6	
Low Battery	E338 C08xx*	R338 C08xx*	$5155\ 5555\ 6$	5355 5555 6	
Battery Charger Failure	E314 C08xx*	R314 C08xx*	5155 5555 1	$5355\ 5555\ 1$	
ECP Supervision	E355 C0000	R355 C0000	$5555\ 5515\ 5$	5555 5535 5	
Communication Path					
Supervision		R350 C0951		$5555\ 5553\ 5$	
Swinger Suppression			0D00 0005 0		
Telco			$5555\ 5155\ 6$	$5555\ 5355\ 6$	
Open/Close			2 sent in selected zone	4 sent in selected zone	
Test	5555 5555 9		5555 5555 9		

Table 8: 7845GSM Central Station Messages

* xx = 7845GSM Device Address

The control panel sends its own general code (E353) for a trouble condition.

Appendix C: GSM Downloading

General Information

The 7845GSM can be used to provide high-speed up/downloading to Honeywell VISTA and LYNXR-I control panels over the GPRS network. This allows site maintenance independent of central station monitoring, and modification to sites globally. At this time, some control panels support downloading through the ECP bus and some panels support downloading through the use of a Direct Wire connection. Residential panels such as the VISTA-20P and LynxR-I support ECP downloading. Currently, commercial controls such as VISTA-128BP and FBP support downloading through use of a Direct Wire connection (using the trigger connections on the control panel).



Downloading may only be performed if a technician is at the site.

Direct Wire Setup

To perform up/downloading using Direct Wire, the 7845GSM requires that Direct Wire Downloading is enabled (Enable DW), and that the ECP device address on which the 7845GSM communicates with the control panel as a keypad is entered (Direct Wire Address). Additionally, the 7845GSM must be connected by cable as shown below to the panels listed.

NOTE: This feature is not available if device is set for zone trigger mode.



Figure 17. Cable Connections for Direct Wire Downloading

Appendix D: Glossary

AES – Advanced Encryption Standard

DHCP – Dynamic Host Configuration Protocol, which provides a mechanism for allocating IP addresses dynamically so that addresses can be reused when hosts no longer need them.

DNS – Domain Name System, which is a distributed hierarchical naming system used to resolve domain names (e.g., www.yahoo.com) into numerical IP addresses (e.g., 204.17.25.1.).

DSL – Digital Subscriber Line

ECP – Enhanced Console Protocol, which is a proprietary communications bus used in Honeywell VISTA control panels for wiring additional keypads and peripheral devices; consists of a four-wire data bus (power+/-, data in/out).

Gateway IP Address - A gateway (sometimes called a router) is a computer and/or software used to connect two or more networks (including incompatible networks) and translates information from one network to the other. The Gateway IP address is the IP address for the gateway.

GPRS – (General Packet Radio Service)

 GSM – Global System for Mobile communications, which is an international standard for digital mobile phone systems used for cellular communication.

IMEI – International Mobile Equipment Identity number

IP – Internet Protocol

IP Address – A unique number consisting of four parts separated by periods, sometimes called a "dotted quad.," for example: 204.17.29.11, assigned to every computer/workstation connected to the Internet. IP numbers can be "static" (assigned and unchanging) or "dynamic," assigned via DHCP at each and every startup.

ISDN – Integrated Services Digital Network

ISP – Internet Service Provider

LAN – Local Area Network

MAC Address – Media Access Code; located on the module label.

PPPoE – Point-to-Point Protocol over Ethernet

Subnet Mask - A Subnet is a portion of a network that shares a network address with other portions of the network, and is distinguished by a subnet number. The Subnet Mask is a 32-bit address mask used in IP to indicate the bits of an IP address that are being used for the subnet address.

TCP/IP – Transmission Control Protocol / Internet protocol

Notes:

FCC AND INDUSTRY CANADA STATEMENT

This device complies with Part 15 of the FCC Rules and RSS210 of Industry Canada. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This Class B digital apparatus complies with Canadian ICES-003.

Cet Appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

FEDERAL COMMUNICATIONS COMMISSION (FCC) STATEMENT

This equipment has been tested to FCC requirements and has been found acceptable for use. The FCC requires the following statement for your information:

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- If using an indoor antenna, have a quality outdoor antenna installed.
- Reorient the receiving antenna until interference is reduced or eliminated.
- Move the radio or television receiver away from the receiver/control.
- Move the antenna leads away from any wire runs to the receiver/control.

• Plug the receiver/control into a different outlet so that it and the radio or television receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user or installer may find the following booklet prepared by the Federal Communications Commission helpful:

"Interference Handbook"

This booklet is available under Stock No. 004-000-00450-7 from the U.S. Government Printing Office, Washington, DC 20402.

The user shall not make any changes or modifications to the equipment unless authorized by the Installation and Setup Guide or User Guide. Unauthorized changes or modifications could void the user's authority to operate the equipment.

7845GSM Summary of Connections



	89					
TB1	ECP Mode	Zone Trigger Mode	4204 Mode	2 x 4204 Mode		
1	AC 1	AC 1	AC 1	AC 1		
2	AC 2	AC 2	AC 2	AC 2		
3	ECP V+ (RED)	NOT USED	ECP V+ (RED)	ECP V (RED)+		
4	GND (BLK)	GND (BLK)	GND (BLK)	GND (BLK)		
5	ECP IN (YEL)	Z1/Z2	ECP IN (YEL)	ECP IN (YEL)		
6	ECP OUT (GRN)	Z3	ECP OUT (GRN)	ECP OUT (GRN)		
7	NOT USED	Z4	NOT USED	NOT USED		
8	NOT USED	Z5	NOT USED	NOT USED		
9	Z6	Z6	Z6	NOT USED		
10	Z7	Z7	Z7	NOT USED		
11	FLT OUT	FLT OUT	FLT OUT	FLT OUT		

TB1 Wiring for 7845GSM Cellular Communicator

WWW.DIYALARMFORUM.COM

LIMITED WARRANTY

Honeywell International Inc., acting through its Security & Custom Electronics business ("Seller") 165 Eileen Way, Syosset, New York 11791, warrants its product(s) to be in conformance with its own plans and specifications and to be free from defects in materials and workmanship under normal use and service for 24 months from the date stamp control on the product(s) or, for product(s) not having a manufacturer's date stamp, for 12 months from date of original purchase unless the installation instructions or catalog sets forth a shorter period, in which case the shorter period shall apply. Seller's obligation shall be limited to repairing or replacing, at its option, free of charge for materials or labor, any product(s) which is proved not in compliance with Seller's specifications or proves defective in materials or workmanship under normal use and service. Seller shall have no obligation under this Limited Warranty or otherwise if the product(s) is altered or improperly repaired or serviced by anyone other than Honeywell factory service. Connection of any device(s) to a communication bus of a Honeywell security system (e.g., keypad bus, polling loop) other than those manufactured or approved by Honeywell shall void this warranty. For warranty service, return product(s) transportation prepaid, to Honeywell Factory Service, 165 Eileen Way, Syosset, New York 11791.

THERE ARE NO WARRANTIES. EXPRESS OR IMPLIED. OF MERCHANTABILITY. OR FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. IN NO CASE SHALL SELLER BE LIABLE TO ANYONE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, OR UPON ANY OTHER BASIS OF LIABILITY WHATSOEVER, EVEN IF THE LOSS OR DAMAGE IS CAUSED BY THE SELLER'S OWN NEGLIGENCE OR FAULT. Seller does not represent that the product(s) it sells may not be compromised or circumvented; that the product(s) will prevent any personal injury or property loss by burglary, robbery, fire or otherwise; or that the product(s) will in all cases provide adequate warning or protection. Customer understands that a properly installed and maintained alarm system may only reduce the risk of a burglary, robbery, fire, or other events occurring without providing an alarm, but it is not insurance or a guarantee that such will not occur or that there will be no personal injury or property loss as a result. CONSEQUENTLY, SELLER SHALL HAVE NO LIABILITY FOR ANY PERSONAL INJURY, PROPERTY DAMAGE OR OTHER LOSS BASED ON A CLAIM THAT THE PRODUCT(S) FAILED TO GIVE WARNING. HOWEVER, IF SELLER IS HELD LIABLE, WHETHER DIRECTLY OR INDIRECTLY, FOR ANY LOSS OR DAMAGE ARISING UNDER THIS LIMITED WARRANTY OR OTHERWISE, REGARDLESS OF CAUSE OR ORIGIN. SELLER'S MAXIMUM LIABILITY SHALL NOT IN ANY CASE EXCEED THE PURCHASE PRICE OF THE PRODUCT(S). WHICH SHALL BE THE COMPLETE AND EXCLUSIVE REMEDY AGAINST SELLER.

This warranty replaces any previous warranties and is the only warranty made by Seller on this product(s). No increase or alteration, written or verbal, of the obligations of this Limited Warranty is authorized.

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