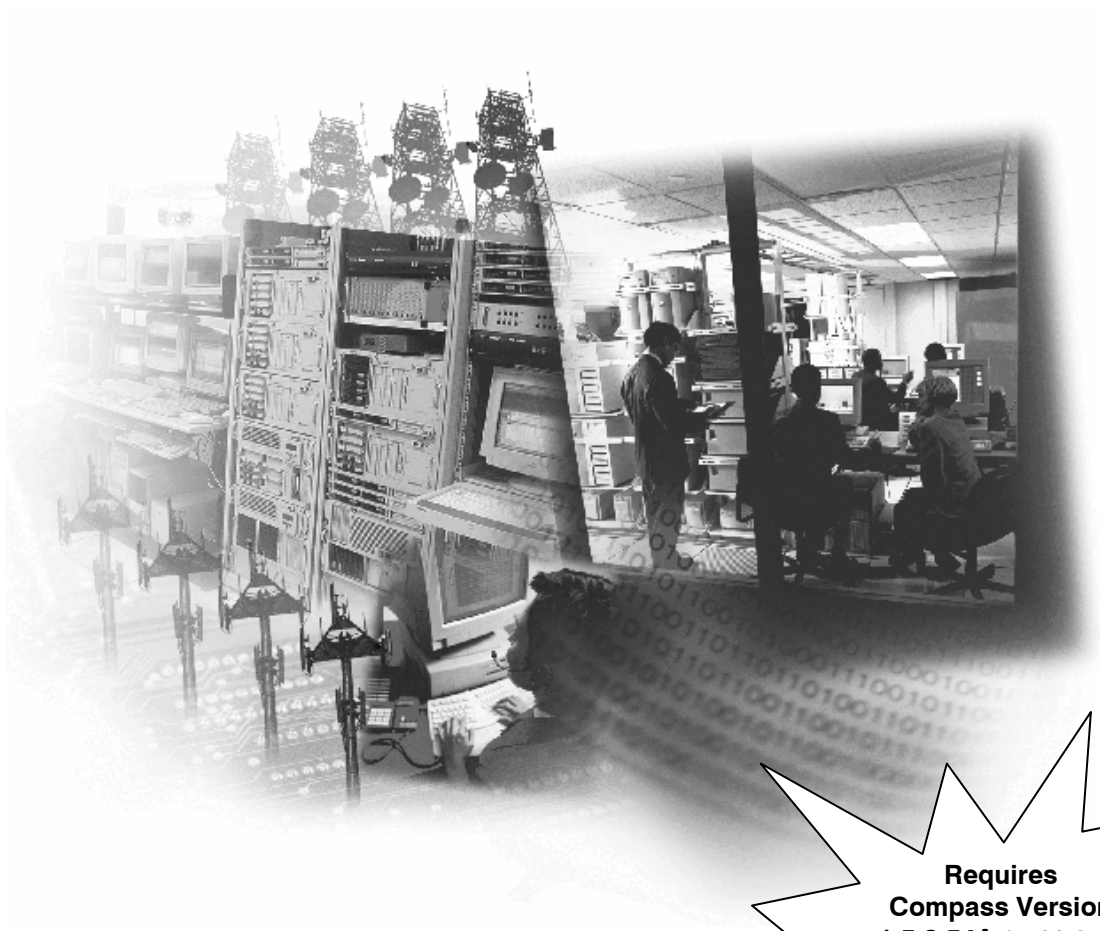


LYNXDM-GSM
Digital Cellular Communicator

Programming Guide



**Requires
Compass Version
1.5.8.54A (or higher)
for GSM
Downloading**

Table of Contents

GENERAL INFORMATION	1
Using the AlarmNet Direct website	1
Using a 7720P Programming Tool.....	1
Programming Conventions.....	2
PROGRAMMING.....	2
ECP Mode Programming	2
ECP Status Codes	6
Exiting Programming Mode.....	6
Setting Factory Defaults.....	6
REGISTRATION.....	7
Registering the LYNXDM-GSM	7
Registering through AlarmNet Direct Website	7
Using the Tamper Switch.....	8
Using the Programming Tool.....	8
Replacing an existing module using the programming tool.....	9
Register by Phone.....	9
PROGRAMMER KEYBOARD COMMANDS.....	10
Module Identification Displays	10
GSM Status Displays	10
System Status Displays	11
APPENDIX A	12
SUMMARY OF LED OPERATION.....	12
LYNXDM-GSM Status Display Operation	12
Signal Strength (RSSI) / Mode and Status LEDs.....	13
Mode and Status Indicator Switch	13
CENTRAL STATION MESSAGES	14
GSM DOWNLOADING	14
General Information	14
GLOSSARY	15

GENERAL INFORMATION

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



The LYNXDM-GSM module requires an AlarmNet-i account. For new installations, please obtain the account information from the central station prior to programming this module.

The LYNXDM-GSM can be programmed through the following methods:

- The AlarmNet Direct website
- Use of a 7720P Programming Tool

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)
5. After programming is complete, you must transfer the data to the module and the module must be registered. Refer to the Registration section for further instructions.

Using a 7720P Programming Tool

Connect the 7720P Programming Tool as shown in Figure 1. The LYNXDM-GSM powers the 7720P Programming Tool via the programming jack, and automatically senses the presence of the 7720P when it is plugged in.

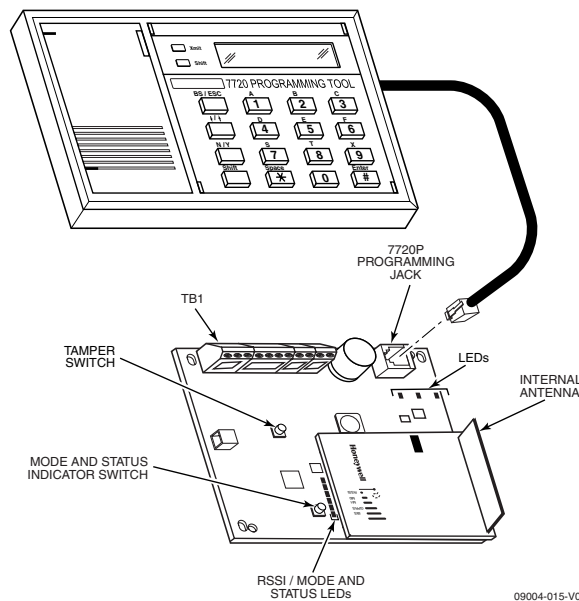


Figure 1. Cable Connections

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 1 lists each normal and shift key function.

Table 1. 7720P Normal and Shift Key (shift LED lit) Functions

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*
↓/↑	[↓]: 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 function. Will light SHIFT LED. LED goes out once a key is pressed. Press again for each SHIFT function 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

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

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.

PROGRAMMING

ECP Mode Programming

The LYNXDM-GSM supports ECP messaging to communicate with the control panel. LRR-enabled control panels send Contact ID format alarms to the LYNXDM-GSM directly on the 4-wire console bus. Refer to Table 2 for LYNXDM-GSM programming and follow the prompts.

Press the [ENTER] key to begin programming.

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

**Access to Prog
Mode Denied**

Table 2: Programming the LYNXDM-GSM.

NOTE: The default programming values 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." 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.
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. 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: <div style="border: 1px solid black; padding: 2px; display: inline-block;">Verify Not OK PSWD not created</div> Otherwise, the "Exit Prog. Mode?" prompt is displayed directly.
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.

	PROMPTS	ENTRY	OPTIONS	DESCRIPTION
9	Device Mode (ECP)_		<ul style="list-style-type: none"> • ECP • Zone Trig. • 4204 Emu • Two 4204s 	Press the [space] key to scroll through the modes of operation. Press [ENTER] to select ECP mode. Note: Do not select any other mode.

Important Information Regarding Primary and Secondary Accounts (Questions 10-16)

Account information is provided by the central station administrator. If the control supports secondary account reporting, you will need secondary account information. The City ID, CS ID or Subscriber ID of the secondary account must differ from that of the primary account.

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]	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]	The LYNXDM-GSM communicates with the panel as a Long Range Radio (LRR) device. Enter ECP device address 03. NOTE: When programming the control, enable the LRR output.
18	Supervision (24 Hours)_		<ul style="list-style-type: none"> • 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. UL NOTE: Must be 24 hour.
19	Old Alarm Time (10 Minutes)_		<ul style="list-style-type: none"> • 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. UL NOTE: Must be 10 minutes.

	PROMPTS	ENTRY	OPTIONS	DESCRIPTION
20	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.
21	Flt Rel ON Y/N (N)_		[Y], [N]	Not used with LYNX. Select [N].
22	Enable Zn6 Y/N (N)_		[Y], [N]	Not used with LYNX. Select [N].
23	Enable Zn7 Y/N (N)_		[Y], [N]	Not used with LYNX. Select [N].
24	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

The LYNXDM-GSM sends status messages to the control panels for power and network connectivity failures. The LYNXR-I will display "FAULT 103" if any of the events listed below should occur. In addition, the Contact ID codes (listed in Appendix A) for these conditions are sent to the central station by the module.

- Control panel loses communication with LYNXDM-GSM.
- Primary (Internet) Communications Path Supervision
- Secondary (GSM) Communications Path Supervision
- LYNXDM-GSM is not registered; account not activated.
- LYNXDM-GSM shutdown.
- LYNXDM-GSM power-on reset AND the control panel lost communications with LYNXDM-GSM.
- LYNXDM-GSM power on reset AND not registered.

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.



If critical configuration changes were made, such as the mode of operation, the LYNXDM-GSM 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 these steps until the upload is successful.

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

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 Programming step 4).

REGISTRATION

Registering the LYNXDM-GSM

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

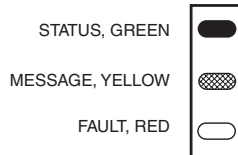


Figure 2. Unregistered LYNXDM-GSM Status Display In Normal Operation

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



Figure 3. LED Key

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



The "Registration Success" message is only displayed when the 7720P Programming Tool is used for registration.

You can register the LYNXDM-GSM by one of the following methods:

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

Registering through AlarmNet Direct Website

Register 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: https://services.alarmnet.com/AlarmNetDirectP_Sign-Up.

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.

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 LYNXDM-GSM 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 803”. The description may read “Trouble – Exp. Mod. Reset”. If registration is not validated within 90 seconds, the LYNXDM-GSM times out, and the (green) LED will be lit (solid).

Using the Programming Tool

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

Registering ...

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

Registration SUCCESS

If this is a new installation and the city, central station, and customer numbers have been correctly entered, the LYNXDM-IGSM is registered and this message is displayed. The LYNXDM-IGSM 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 with AlarmNet customer service.

Registration BAD 2nd Sub ID BAD

Indicates the city, central station, or customer number 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 LYNXDM-IGSM for an existing account. This prompt appears for 2 seconds. See the *Replacing an existing module* 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 LYNXDM-IGSM for an existing account. This prompt appears for 2 seconds. See the *Replacing an existing module* 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 LYNXDM-IGSM for an existing account. This prompt appears for 2 seconds. See the *Replacing an existing module* section below for further displays.

Replacing an existing module using the programming tool

Enter PIN#

This prompt appears after pressing the **down arrow** [↓] 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 LYNXDM-IGSM is registered and the old unit unregistered. Additionally, AlarmNet sends a substitution alarm to the central station.

Registration BAD

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 subscriber ID.
- When instructed to do so, triple-click the tamper switch to complete the registration.

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 x.x.xx mm/dd/yy
--

Software Revision

"x.x.xx" indicates the installed software Revision.

Mm/dd/yy indicates month, day and year of the revision.

Module Identification Displays

[B]

MAC xxxxxxxxxxxx MAC CRC yyyy
--

MAC Address

"xxxxxxxxxxxx" indicates the LYNXDM-GSM'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 xxxxx xxxxx
--

SCID Display

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 xxxxxxx xxxxxx x

IMEI Display

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 05:48:39 am
--

Time

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 Displays

[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

? – Unknown Registration State

Press the [space] key to go to the next screen.

Press the [backspace] key to go to the last screen.

Cntry Netw LAC xxx xxx xxxxx
--

GSM Status Display Screen 2

Cntry – Country Code

Netw – Network Code

LAC – Local area code

Press the [space] key to get to the next screen.

Press the [backspace] key to go to the previous field.

Cell BaseSt Chan xxxxx x xxx

GSM Status Display Screen 3

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.

System Status Displays

[S]

ECP 67	Fit
xx	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.

[T]

Test Msg Sent

Test Alarm

Sends a Test alarm to AlarmNet. Functional for a *registered* LYNXDM-GSM 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 LYNXDM-GSM.

Pressing [N] returns to normal mode.

Pressing [Y] resets the device.

[↑]

(UP arrow)

Registering ...

Registration

Registers a programmed LYNXDM-GSM with AlarmNet.

[↓]

(DN arrow)

Enter PIN#

Registration with PIN for Replacement Module

Registers a replacement LYNXDM-GSM with AlarmNet, once programmed, using the existing PIN #.

[0]

Force Server Update?
Y/N

Force Upload of Configuration File to Server

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].

APPENDIX A

SUMMARY OF LED OPERATION

LYNXDM-GSM Status Display Operation

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

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

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:



Figure 4. LED Key

Table 3. Status Display Operation

LED COLOR	LED	DESCRIPTION
GREEN	STATUS	ON – LYNXDM-GSM is NOT registered with AlarmNet. OFF – LYNXDM-GSM 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.

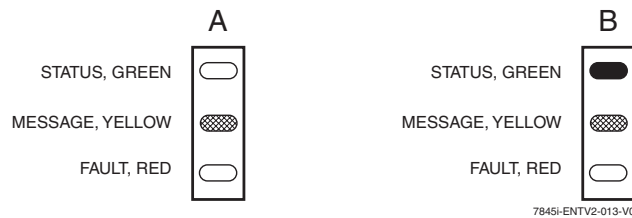


Figure 5. A Registered LYNXDM-GSM Status Display (A) and an Unregistered LYNXDM-GSM Status Display in Normal Operating State (B)

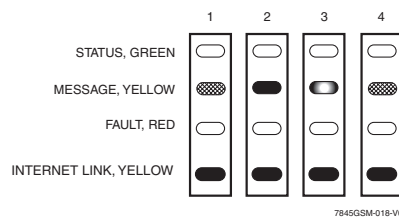


Figure 6. LED Sequence for a Registered LYNXDM-GSM Message Transmission

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 4. LED Functions with Mode and Status Indicator Switch Depressed

Operation Modes (Table 4a)			Status Indications (Table 4b)		
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 4a. Operation Modes

OPERATION MODE	LED 2 (1 st yellow)	LED 3 (2 nd yellow)
ECP	OFF	OFF

Table 4b. 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

CENTRAL STATION MESSAGES

The following messages are sent to the Central Station by the LYNXDM-GSM module for the conditions listed below.

Table 5. LYNXDM-GSM Central Station Messages

Alarm Condition	ECP Mode Alarm Code	ECP Mode Restore Code
Power On Reset	E339 C0803	
ECP Supervision	E355 C0000	R355 C0000
Communication Path Supervision		R350 C0951
Test	5555 5555 9	

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

GSM DOWNLOADING

General Information

The LYNXDM-GSM can be used to provide high-speed up/downloading to LYNXR-I Series control panels over the GPRS network via ECP communication. This allows site maintenance independent of central station monitoring, and modification to sites globally.



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

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 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 -

- NOTES -

- NOTES -

- NOTES -

Honeywell

165 Eileen Way, Syosset, New York 11791
Copyright © 2007 Honeywell International Inc.

www.honeywell.com/security



K14540 2/07 Rev. A