

SCORPION

Z16040C

Alarm Controller

User Instructions

Thank you for choosing to purchase this micron security alarm controller. Micron product is manufactured to exacting quality standards. We understand the importance of designing products that are reliable and easy to use. You can rest secure knowing we have thought of everything to ensure your complete peace of mind.

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The Icon LCD Keypad

The Scorpion Z16040C indicates system status by visual and audible indication via a sixteen zone Icon LCD or LED keypad. When a valid user code is entered the alarm will begin arming and the keypad will emit a tone for the programmed exit time. At the expiry of the exit time the tone will stop and the system will arm. Visual and audible indication of the alarm status will be displayed on the keypad. Please refer to the LCD graphic and LED symbol descriptions below.

When entering the premises the keypad will emit a repeating tone for the programmed entry time, alerting you to turn off your alarm system. Entering a valid user code will disarm the system and the keypad will emit two short beeps. An incorrect user code entry is signalled by one long beep.

Icon LCD Keypad Symbols

The LCD keypad gives full visual and audible indication of the status of your alarm. The keypad has five graphic symbols, an area identifier and 16 zone indicators.



The **power lead symbol** is on when mains power is present and flashes together with the system fault symbol when there has been a mains failure.



The **system fault symbol** flashes when there has been a system fault condition, or a system two key panic command has been initiated (see page 20 for further details).



The **bell symbol** flashes when an alarm condition has occurred or a system two key panic has been activated.



The **moon symbol** is displayed when the system is night armed.



The **padlock symbol** is displayed ‘unlocked’ when the system is disarmed and ‘locked’ when the system is away armed or night armed



The **area identifier symbol** is the four segment box at the lower right hand side of the LCD display. This symbol displays the area(s) that is away armed or night armed. In non-partitioned systems only Area A is displayed

Zone and Graphic LCD keypad Indicators

The zone indicator lamps are displayed as numbers 1 through 16 on the top two lines of the LCD keypad. The arming zone numbers will be displayed when an away arm or night arm command has been initiated. During the exit delay the keypad will also display the ‘padlock’ symbol flashing in an alternating lock and unlock state and the area identifier box will show the area(s) that are arming. A fast pulse audible tone will be heard.

In the event of a system alarm, the keypad will display the full status of the alarm condition. The zone indicators, power lead, system fault, bell and padlock symbols will flash together with the area identifier, indicating the area in which the zone(s) has activated.

If your system is partitioned into multiple areas, then only the user codes assigned to the designated area(s) are functional for that area(s). All zones assigned to an area are visually and audibly signalled on the keypad(s) programmed for that area(s).

The Sixteen Zone LED Keypad

The LED keypad gives full visual and audible indication of the status of your alarm. The keypad has four area identifiers, AC power, night arm and 16 zone indicators.

The **green AC symbol** is on when mains power is present and flashes when there has been a mains failure.

The **AC symbol** flashes fast when there has been a system fault condition, or a system two key panic command has been initiated (see page 20 for further details).

The **area identifiers (S1, S2, S3, S4)** flash when arming an area(s) and remain steady on when an area has armed.

The **area identifiers (S1, S2, S3, S4)** flash when an alarm condition has occurred within that area(s) or a system two key panic has been activated.

The **yellow Nite symbol** is on when the system is night armed.

Zone LED Keypad Indicators

The zone indicator lamps are displayed as numbers 1 through 16 on the LED keypad. The arming zones will be displayed when an away arm or night arm command has been initiated. A fast pulse audible tone will be heard.

In the event of a system alarm, the keypad will display the full status of the alarm condition. The zone indicators will flash together with the area identifier, indicating the area in which the zone(s) has activated.

If your system is partitioned into multiple areas, then only the user codes assigned to the designated area(s) are functional for that area(s). All zones assigned to an area are visually and audibly signalled on the keypad(s) programmed for that area(s).

Keypad and Telephone Entry Commands Table

Commands notated < > indicate a numeric code to be entered on the keypad to execute that function.

Keypad Entry	Command
1#	Quick arm area A
2#	Quick arm area B
3#	Quick arm area C
4#	Quick arm area D
Call the alarm phone number from a touch tone phone and enter.....	*1 <enabled user code> # Area armed using a touch tone phone. For areas A-D. *3 <enabled user code> # Area disarmed using a touch tone phone. For areas A-D. *5 <enabled user code> # Output turned on using a touch tone phone. *7 <enabled user code> # Output turned off using a touch tone phone.
9#	Arm all areas or arm all areas not already armed
*11	<enabled user code> * <zone to exclude> # Manual bypass of a zone.
*20	<master user code> # <new user code> # Add a new user code.
*21	<master user code> # <old user code> # <new user code> # Change a user code.
*23	<master user code> # <user code to delete> # Delete a user code.
*24	<master user code> # <temporary user code> # Valid until midnight of the same day.
*31	<master user code> # <follow me telephone number 1> # Alarm calls this number when alarm activated.
*32	<master user code> # <follow me telephone number 2> # Alarm calls this number when alarm activated.
*38	<master user code> # Alarm calls to test telephone number 1.
*39	<master user code> # Alarm calls to test telephone number 2.
*50	<master user code> # <enter or change alarm's clock time HHMM> # 24 hour format.

*51	<master user code> # <auto arm time HHMM> #	24 hour format.
*52	<master user code> # <auto disarm time HHMM> #	24 hour format.
*59	<master user code> #	To abort current communications.
*71	Chime area A On/Off	
*72	Chime area B On/Off	
*73	Chime area C On/Off	
*74	Chime area D On/Off	
*77	Smoke alarm reset	
*80	Zone alarm history recall. Step through history with the # key. Press any key to leave program.	
*81	Tamper alarm recall	
*83	Miscellaneous status recall (see alarm status recall menu on page 19)	
*85	Walk test detector mode. Siren sounds once to verify an alarm activation.	
*91	Nite arm/disarm area A	
*92	Nite arm/disarm area B	
*93	Nite arm/disarm area C	
*94	Nite arm/disarm area D	
*96	Instant Nite arm area A (In Instant mode you can only disarm using a valid user code)	
*97	Instant Nite arm area B (In Instant mode you can only disarm using a valid user code)	
*98	Instant Nite arm area C (In Instant mode you can only disarm using a valid user code)	
*99	Instant Nite arm area D (In Instant mode you can only disarm using a valid user code)	
* + #	Two key panic Press both keys simultaneously.	
1 + 3	Fire panic Press both keys simultaneously.	
4 + 6	Medical panic Press both keys simultaneously.	

User Code Commands

User codes can be set up to function in a number of different ways. Each user code may be assigned with multiple functions. Please refer to the table below.

Discuss with your installer how you would like your user codes to function.

- 1) Arm system only
- 2) Master user code
- 3) Disarm all or disarm by area selection
- 4) Arm / Disarm lock code (if armed by this code no other valid code can disarm the system)
- 5) Arm / Disarm from a touch tone phone
- 6) Turns output 4 on / off from a touch tone phone
- 7) Bypass zones

Arming the System (Away Mode)

Enter a valid two to eight digit user code. Factory default user code is **1 2 3 4**.

Use your programmed personal user code when carrying out keypad commands throughout this manual.

If your security system is partitioned, with zones assigned to different areas, then any keypad commands for that partition can only be entered on the keypad assigned to that partition. Please discuss this with your installer during commissioning.



<enabled user code> then #

The keypad zone indicators that are arming will be displayed for the duration of the pre-programmed exit delay time and then turn off. The 'padlock' will be displayed in the locked position and the audible tone will stop. If one or more zone indicators are flashing and the audible tone changes from a fast pulse to a slow pulse, the system is indicating that those zones are not secure. The system should be disarmed, the problem identified and corrected and then the system re-armed.

As the user exits through the protected areas the keypad zone indicators for those areas will change from steady to flashing and the audible keypad tone will change from a fast to a slow pulse. After leaving the protected areas the keypad zone indicators will change back to steady and the audible tone will revert back to a fast pulse. After the exit delay time the zone indicators will turn off and the audible exit tone will stop. The system is now armed.

Disarming the System

On entering the premises the keypad will generate an audible tone reminding the user to turn off the alarm system. Enter a valid two to eight digit user code then #.



<enabled user code> #

Disarming Under Duress

Enter a valid two to eight digit user code then press and hold the # key until a second beep is heard. The alarm system will disarm and send a duress code to the central receiving station if the alarm is monitored.



<enabled user code> then # (hold # until a second beep is heard)

Arming the System to Exclude (or bypass) a Zone(s)

To exclude or bypass zone(s) enter the following sequence.



***11 <enabled user code> then * <zone to bypass> # <zone to bypass> # #**

To exclude zones **3** and **12** prior to arming enter the following sequence.



***11 <enabled user code> then * <3> # <12> # #**

The keypad will now display only those zones that are arming. When next disarming your system the bypassed zones will restore to their normal state.

Only a valid user code with priority to exclude a zone(s) assigned to the area with zones to bypass can carry out this function (see user code commands page 8)

Quick Arming the System by Area

Enter the quick key command for the selected area



1# area 'A' armed
2# area 'B' armed
3# area 'C' armed
4# area 'D' armed

Quick Arming All System Areas

Enter the quick key command to arm all disarmed areas



9# arms **all disarmed** areas.

Arm or Disarm All Areas or Disarm Selected Areas (Partitioned System)

The Scorpion Z16040C can be partitioned into a maximum of four separate areas. These partitions can be managed as independently alarmed areas. Enter a valid code to arm all areas, disarm all areas or disarm selected areas.



<enabled user code> # arms or disarms all areas

<enabled user code> 1# disarms area **'A'**

<enabled user code> 2# disarms area **'B'**

<enabled user code> 3# disarms area **'C'**

<enabled user code> 4# disarms area **'D'**

Night Arming Delayed

Night arming allows areas such as upstairs bedrooms to remain disarmed while all downstairs zones are armed. Enter the night arming code for the selected area.



***91** night arms area **'A'**

***92** night arms area **'B'**

***93** night arms area **'C'**

***94** night arms area **'D'**

When a night arming code is entered the keypad will emit a two beep arming confirmation and display the pre-programmed night zones. The moon symbol will appear and the padlock and area identifier will flash. The system is now undertaking a 'silent' delayed arming routine allowing the user to exit through the protected night armed areas. After the pre-programmed delayed exit time has expired, the night zone(s) indicators will turn off and the area identifier will stay on solid. Your system is now night armed.

When entering a night zone protected area the keypad, if programmed to do so, will emit an audible tone alerting the user to disarm the system with a valid user code. If after the pre-alert the system has not been disarmed, an alarm condition will occur.

If one or more of the night zone(s) indicators is flashing during night arming and the keypad is sounding an alert tone, the system is indicating that a night zone(s) is in an unsecured state, eg an open door. The system should be disarmed using a valid code, the problem identified, corrected and the system re-armed. To ensure secure system integrity, the alarm system can only be disarmed with a valid user code when night armed.

Night Arming Instant

Enter the night arming code for the selected area.



- ***96** night arms area '**A**'
- ***97** night arms area '**B**'
- ***98** night arms area '**C**'
- ***99** night arms area '**D**'

Instant night arming is identical to delayed night arming with the exception that there is no silent arming delay and the system will arm instantly. When entering the night zone(s) protected area the system will generate an instant alarm. In instant mode you can only disarm the system using a valid user code.

Arming Your System from a Remote Telephone

This function requires that your installer has connected a telephone line to the alarm control.

Dial the alarm's telephone number and wait for **two rings**, hang up the telephone and call back within 60 seconds. The alarm will automatically answer on the first ring with a high low tone acknowledgement. Now enter the sequence **to arm** areas.



***1 <enabled user code> #** arms the area(s) assigned to this code

The audible exit pre-alert will be heard confirming the system is now arming. If the system is already in an armed state a long beep will be heard. Only an enabled user code assigned to an area can arm that area. An enabled user code assigned to ALL areas will arm all areas with one entry.

Disarming Your System from a Remote Telephone

Dial the alarm's telephone number and wait for **two rings**, hang up the telephone and call back within 60 seconds. The alarm will automatically answer on the first ring with a high low tone acknowledgement. Now enter the sequence **to disarm** areas.



***3 <enabled user code> #** disarms the area(s) assigned to this code

A two beep confirmation will be heard confirming the system has now disarmed. If the system is already disarmed a long beep will be heard. Only an enabled user code assigned to an area can disarm that area. An enabled user code assigned to ALL areas will disarm all areas with one entry.

Turning On an Output from a Remote Telephone

Dial the alarm's telephone number and wait for **two rings**, hang up the telephone and call back within 60 seconds. The alarm will automatically answer on the first ring with a high low tone acknowledgement. Now enter the sequence to **turn on** an output. This output could be used to turn on heating or lights for example.



***5 <enabled user code> #**

If the output is already turned on a long beep will be heard.

Turning Off an Output from a Remote Telephone

Dial the alarm's telephone number and wait for **two rings**, hang up the telephone and call back within 60 seconds. The alarm will automatically answer on the first ring with a high low tone acknowledgement. Now enter the sequence to **turn off** an output. This output could be used to turn off heating or lights for example.



***7 <enabled user code> #**

If the output is already turned off a long beep will be heard.

System Chime



***71** area 'A' chime on or off

***72** area 'B' chime on or off

***73** area 'C' chime on or off

***74** area 'D' chime on or off

When the system is disarmed, entering one of the ***7** commands will turn chime mode **on** or **off**. When turning chime mode **on**, the keypad will emit a three second series of beeps. When one of the pre-programmed chime zones is activated, such as a door entrance, an alert tone will sound at the keypad, alerting that someone has entered the chime zone area. After the initial chime alert, chime mode sleeps and waits for no activity within that zone/area. If after 30 seconds no further activity has been detected, the chime zone(s) will resume chime monitoring and will again sound an alert tone if further activity is detected. When turning **off** the chime function the keypad will emit a two beep tone.

Add a New User Code



***20 <master user code> # <new user code> #**

New user codes will be automatically written to the next available location. Scorpion Z16040C has a maximum of 48 user codes.

Change an Existing User Code



***21 <master user code> # <old user code> # <new user code> #**

The new user code will automatically overwrite the old one. All parameters for the new code will remain the same as the old code

Delete a User Code



***23 <master user code> # <user code to delete> #**

Enter a Temporary User Code



***24 <master user code> # <temporary user code> #**

Temporary user codes allow access to the secured property for one day. The code is deleted by the system at midnight the same day.

Enter a Follow Me Telephone Number (call diversion)

The alarm control may be programmed by the end user to divert an alarm condition call to one or two temporary telephone numbers.



***31 <master user code> # <follow me telephone number 1> #**

***32 <master user code> # <follow me telephone number 2> #**

The control is pre-programmed to enable communication to a personal telephone or mobile phone and sound a warning that the alarm system has activated (siren warble). A series of beeps after the siren warble advises which zone(s) has activated. **Terminate the call by pressing the * key on a DTMF or mobile phone.** A hang up tone will be heard. If the initial call is not acknowledged by pressing the * key, the panel will search for a secondary number to call.

Initiate a Test Call to a Follow Me Telephone Number



***38 <master user code> #** initiates test call to telephone number 1

***39 <master user code> #** initiates test call to telephone number 2

After entering a follow me telephone number (call diversion) this function sends a confirmation test call (hi low tone) to the temporary number.

Change Alarm's Clock Time



***50 <master user code> # <enter current clock time HHMM> #** (24 hour format)

Enter Auto Arming Time

If your system is partitioned, entering an auto arm time can only be activated by a user code assigned to the partition required to auto arm.



***51 <master user code> # <enter auto arming time HHMM > #** (24 hour format)

The alarm control will automatically arm at the pre-set arming time and will repeat arming at this time every 24 hours. If programmed, a 5 minute pre-alert will sound prior to auto arming. Pressing any key on the keypad assigned to that partition during this time will abort the auto arming time until the following day.

Enter Auto Disarming Time

If your system is partitioned, entering an auto disarm time can only be activated by a user code assigned to the partition required to auto disarm.



***52 <master user code> # <enter auto disarming time HHMM > #** (24 hour format)

The alarm control will automatically disarm at the pre-set time. The auto disarming will repeat at this time every 24 hours.

Auto Arming with no Activity



No action required by the user.

If programmed by your alarm technician, the alarm will auto arm at the pre-programmed no activity time. On detecting no activity the alarm will enter a 5 minute arming pre-alert. To abort auto arming press any key on the keypad assigned to that partition, or activate (walk through) any of the programmed auto arm zones in that partition. The auto arming timer will reset and restart the auto arm time with no activity count down.

Stop Current Communication

Entering the following sequence stops the current alarm control communications in progress.



***59** <master user code> # stops communications in progress

Aborts all active communications in progress and clears all outstanding events in reporting history.

Zone Alarm History Recall



***80** recalls alarm event history

Step with the # key to view zone alarm history. History is displayed by the keypad indicator lamps. Pressing the # key will step back to view past events. The first lamp displayed represents the most recent zone alarm. A total of 128 alarm events can be recalled. Press any key to leave alarm history recall.

Tamper Alarm Recall



***81** recalls tamper alarm event history

Step with the # key to view tamper alarm history. History is displayed by the keypad indicator lamps. Pressing the # key will step back to view past events. The first lamp displayed represents the most recent tamper alarm. A tamper is a protection device connected in sensors and external sirens. Press any key to leave tamper alarm recall.

Miscellaneous Alarm Recall



***83** recalls miscellaneous alarm conditions

Miscellaneous alarms are associated with internal alarm conditions such as mains power loss, low standby battery etc. Refer to miscellaneous alarm reports table below.

LED	MISCELLANEOUS ALARM CONDITIONS
Led 1	Panic alarm
Led 2	Battery is discharged or faulty
Led 3	AC mains power to the alarm has failed
Led 4	A dialer communication has failed
Led 5	Phone line is faulty or disconnected
Led 6	Auxiliary 12V power supply overloaded
Led 7	Siren output fault. Circuit open or overloaded
Led 8	Duress initiated from keypad

Walk Test Mode



***85** sets the alarm into walk test mode

In walk test mode you can test each detection device without arming the system. When a detector is activated in a protected area the siren will generate a short audible confirmation that the detection device has activated.

Two Key Panic, Fire and Medical Alert

Press these two key commands simultaneously to activate the following alerts.

* + #	panic alert
4 + 6	medical alert
1 + 3	fire alert

Pressing these two key commands will activate an audible alarm and if monitored send a signal to your monitoring station to action a response to the call.

Other Micron Products



Nitewatch Night Arming Station

Nitewatch is an essential accessory to all micron alarm installations for perimeter arming and a panic function at the bedside.



RCM24 Mega Rolling Code Receiver

Allows micron alarm controls to be remote armed and disarmed and with remote panic function. Also enables garage door, lighting or gate control.



Mini Micro Siren – Composite

Mini micro's intelligent microprocessor circuitry can be programmed to produce both 'burglary' and 'fire' sounds. Sirens are with either a red or blue lens.



PXI Pet Exclusion Infrared Sensors

PXI has intelligent pet exclusion analysis to provide a very cost effective pet sensor that enables animals to be left inside alarmed premises.



BG2000 Glass Break Sensor

This low profile glass break sensor provides a large, 2000 square foot coverage and activates an alarm condition when glass is broken.



Speech Dialler

Micron's speech dialler can be programmed to call telephones, mobile phones or pagers with multiple speech messages that advise of alarm conditions.



Medical Emergency Response

ER-1 is a reliable and flexible medical emergency reporting system for up to sixteen users. The compact console is easy to operate for the elderly and infirm with universal symbols for each button's functionality.



Kocom Intercom Systems

The Kocom range of intercom systems offer audio, black and white and colour video as well as hands free options for homes and apartment complexes.



EzeKey and EzeProx Access Control

Micron access control keypads are a cost-effective stand alone access control system for internal doors. With 30 user codes and up to 500 proximity cards and tags, EzeAccess keypads can control electronic locks on two doors.



CCTV Solutions

Micron's camera and digital video recorder range offer excellent surveillance options for all home and business applications.

Telecom Waiver

The grant of a Telepermit for any item of terminal equipment indicates only that Telecom has accepted that the item complies with the minimum conditions for connection to its network. It indicates no endorsement of the product by Telecom, nor does it provide any sort of warranty. Above all, it provides no assurance that any item will work correctly in all respects with another item of Telepermitted equipment of a different make or model, nor does it imply that any product is compatible with all of Telecom's network services.

This equipment is set up to carry out test calls at pre-determined times. Such test calls will interrupt any other calls that may be set up on the line at the same time. The timing set for such test calls should be discussed with the installer. The timing set for test calls from this equipment may be subject to 'drift'. If this proves to be inconvenient and your calls are interrupted, then the problem of timing should be discussed with the equipment installer. The matter should NOT be reported as a fault to Telecom Faults Service.

IMPORTANT: This alarm system must be tested weekly to maintain system integrity.

GUARANTEE

1. Subject to clause 2 below, Micron guarantees this product against defects in materials and workmanship for a period of 24 months from the date of delivery to the purchaser as follows:
 - (a) Micron will repair or replace free of charge any goods or part thereof found to be defective by reason of faulty material or workmanship.
 - (b) The purchaser must give Micron notice of the alleged defect within 14 days of it becoming apparent and must return the defective goods or part thereof to Micron.
2. This guarantee does not apply or extend to:
 - (a) Any product altered or repaired by any person other than Micron so as in Micron's sole judgement to adversely affect the product.
 - (b) Damage, malfunction or failure arising from accident, misuse or misapplication, neglect, modifications, use of unauthorised replacement parts or accessories, exceeding the specific ratings, improper voltage or connection of any wire to any part of the circuit board other than the terminal block.
 - (c) Any product where the rating label or serial number is removed or altered.
 - (d) Any consequential or indirect loss.

Designed and manufactured by:

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