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EN 50131-10
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EN 50136-1
EN 50136-2
CEB T031



Nexus

GSM, GPRS, LTE communicator

Installation and programming manual

inim[®]



Table of contents

1. Description of Nexus	3
1.1 Description of parts	6
1.2 Technical specifications	7
2. Installing the Nexus	8
2.1 Anti-tamper	9
2.2 Connecting to the I-BUS line	10
3. Programming the Nexus	12
3.1 SMS Commands	12
3.2 Caller ID commands	14
3.3 Text for SMS messages	14
3.4 Parameters of the Nexus communicator	15
3.5 APN (Access Point Name) parameters	16
4. General information	17
4.1 About this manual	17
4.2 Manufacturer's details	17
4.3 Simplified EU Declaration of Conformity	17
4.4 Warranty	17
4.5 Limited warranty	18
4.6 Documents for the users	18
4.7 Disposal of the product	18

1. Description of Nexus

Nexus is a device managed by the BUS designed to interface control panels with cellular communication channels.

Models

The Nexus communicator is available in several models, with different transmission functions and technologies.

model	terminals	backup battery	network	frequency
Nexus	on view	no	2G (GSM)	2G: Quad band (850/900/1800/1900 MHz)
Nexus/G	on view	no	2G(GSM/GPRS)	
Nexus/4GU	on view	no	2G (GSM/GPRS)	2G: GSM 900MHz / DCS 1800MHz 4G: LTE Bands n. 1, 3, 7, 8, 20
Nexus/4GP	protected	Yes	4G (LTE)	

Functions

The functions available for the anti-intrusion control panels, depending on the model of the Nexus they are equipped with, are:

function	model
Voice calls using the voice board installed on the control panel	all models
Digital calls using CONTACT-ID protocols	
SIA-IP Transmission events	Nexus/G, Nexus/4GU, Nexus/4GP
Send SMS for each event using alternatively: the description provided by the keypad events log a customizable description	all models
Commands sent by the user via SMS	
Commands using recognition of the telephone number of the user (CALLER-ID)	
Answerphone function	
Connection to the Inim Cloud service	Nexus/G, Nexus/4GU, Nexus/4GP

Note

Inim Electronics does not guarantee the full availability of all the functions inherent to the mobile services described in this document for any combination of provider, type of SIM and model of telephone set used.

Protection

All versions of the communicator are equipped with anti-tamper devices on the enclosure that houses the PCB.

Nexus/4GP versions are also equipped with protection against dislodgement tamper.



Buzzer

Nexus and Nexus/G versions are equipped with a buzzer for the confirmation signals programmed for events linked to the programming in the control panel of the communicator (for example the confirmation of call or SMS commands).

Terminals

The screw terminals for the connections are described below:

n.	icon/identifier	description
1	+	Terminal '+' for the I-BUS connection
2	D	Terminal 'D' for the I-BUS connection
3	S	Terminal 'S' for the I-BUS connection
4	-	Terminal '-' for the I-BUS connection

LED

Peripheral activity LED signals are as follows:

LED		function	ON	OFF
DL1	Communication	Indicates communication with the control panel	The LED blinks during ongoing communications	Not communicating
DL2	Emergency	Indicates communication failure with the control panel	Blinks in the event of tamper or fault on the BUS	Normal communication with the control panel
DL3	Faults	Indicates the presence of a communicator fault	Blinks in the event of ongoing faults	No faults present
DL4	Connection	Indicates the status of the wireless network	Slow flashing (ON 64ms / OFF 3000 ms) - device registered to the cellular network Regular flashing (ON 64ms / OFF 800 ms) - device not registered and in search of the network provider Fast flashing (ON 64ms / OFF 300 ms) - data communication in progress	Device Off

Button P1

By pressing button **P1** it is possible to find out the wireless signal reception level by the number of LEDs that light up. Visualization lasts for 5 seconds

- 1 LED (DL1) flashing - insufficient cover
- 1 LED (DL1) on steady - weak signal
- 2 LEDs (DL1 and DL2) - good signal
- LED (DL1, DL2 and DL3) - excellent signal

Button P2

Following the lighting up of the LED DL3, indicating the presence of a fault, it is possible to find out the cause by pressing button **P2**. The successive lighting up of LEDs DL1, DL2 and DL3 signals the following:

LED on/flashing	Fault
DL1	Low credit Battery down
DL2	Faults related to the SIM card or to the cover: • PIN of the SIM card not unlocked • No SIM

LED on/flashing	Fault
	- insufficient cover - not registered with the mobile network operator Details can be viewed via the control panel keypad.
DL3	Communication problems with the wireless module

EN50131 standard requirements

In compliance with the requirements of EN50131 Grade 3, during stand-by mode, all the device LEDs must be off at all times ('hidden' standby mode).

To activate this mode with the 4G models, it is necessary to put the connected anti-intrusion control panel in 'service' mode, to do so you must hold down simultaneously buttons P1 and P2 for at least 5 seconds. The 4 LEDs will flash to signal the successful activation of the required mode, at which point you can release the buttons.

The same procedure must be used to deactivate the 'hidden' standby mode.

Batteries

The Nexus/4GP models has internal batteries, supplied, which ensure the correct functioning of the signals and transmissions from the device in the absence of the power supply from the BUS (for example, in the case of wire-cutting or tamper).

Note

Despite the presence of batteries with sufficient charge, power from the BUS is required for activation.

By simultaneously pressing buttons **P1** and **P2**, it is possible to find out the battery charge level indicated by the number of LEDs that light up. Visualization lasts for 5 seconds

- 1 LED (DL1) flashing - insufficient charge
- 1 LED (DL1) on steady - low charge
- 2 LEDs (DL1 and DL2) - good charge
- 3 LEDs (DL1, DL2 and DL3) - excellent charge

VoLTE technology

Nexus 4G models use 'VoLTE' technology to make voice calls over the 4G network.

If this technology is not activated, the Nexus automatically switches to the 2G network in the event of a voice call.

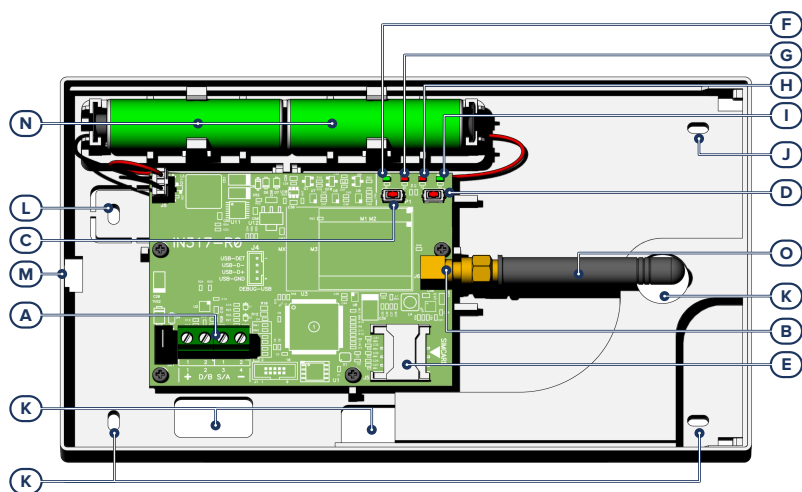
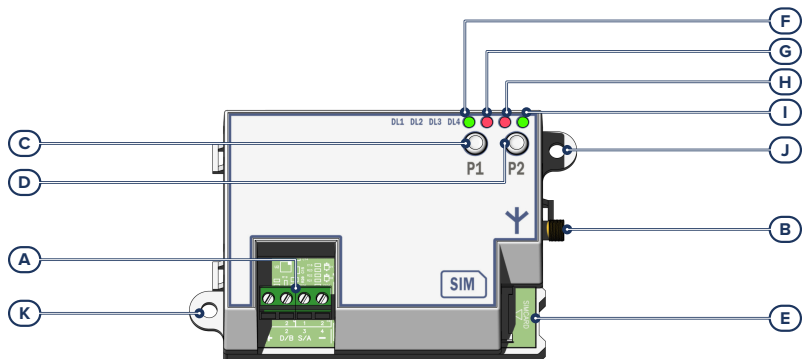
Warning

For the correct functioning of the device it is necessary to verify that the 'VoLTE' technology has been activated by the 4G network operator.

This can be done through the monitoring function of the programming software.



1.1 Description of parts



[A] Terminal board

[B] Antenna connector

[C] Button P1

[D] Button P2

[E] SIM card housing

[F] LED DL1 - Communication (green)

[G] LED DL2 Emergency (red)

[H] LED DL3 - Fault (red)

[I] LED DL4 - Connection (green)

[J] Mounting screw hole

[K] Cable entry

[L] Hole for ant-dislodgement device

[M] Hook with screw for lid closure

[N] Batteries

[O] Antenna

1.2 Technical specifications

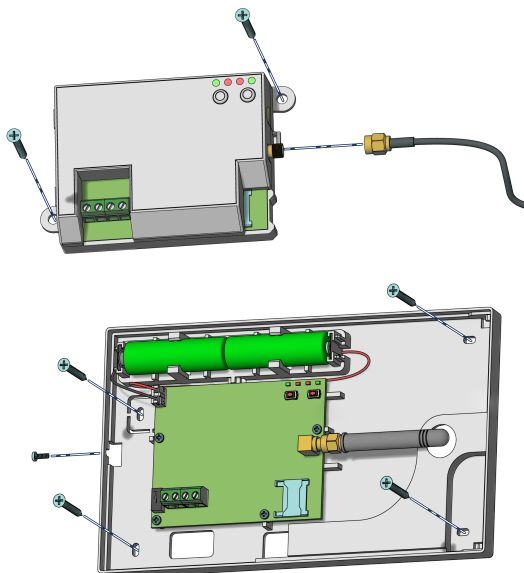
Model	Nexus	Nexus/G	Nexus/4GU	Nexus/4GP
Voltage	from 9 to 15V 			
Current absorption				
during standby	90mA		50mA	
maximum	900mA		600mA	
Band frequency	850/900, 1800/1900 MHz		GSM 900MHz / DCS 1800MHz / LTE Bands n. 1, 3, 7, 8, 20	
SPT consumptions (Supervised Premises Transceiver)				
peak current	900mA		600mA	
hourly average current	115mA		60mA	
Maximum RF output power	33dBm (2W)		33dBm (2W) / 30dBm (1W) / 23dBm (200mW)	
Antenna	remote with 1.5 meter cable, SMA-Male connector and magnetic base		remote with 1.5 meter cable, SMA-Male connector and magnetic base	stilo, SMA-Male connector, inserted
Batteries				
type	/	/	/	2 x AA, alkaline
duration	/	/	/	2 years
Environmental operating conditions				
temperature	from -10 to +40°C			
relative humidity	≤75% without condensation			
Security rating	2	3		
Environmental class	II			
Dimensions (W x H x D)	108 x 64 x 24mm		108 x 64 x 24mm	196 x 111 x 28mm
Weight	77g		77g	250g (batteries included)



(EN IEC 62368-1)

Terminal type	+ D S -	ES1, PS2
	ANT	ES1, PS1

2. Installing the Nexus



1. Choose a suitable location for installing the communicator and remote antenna.

Versions of the Nexus with exposed terminals (Nexus, Nexus/G and Nexus/4GU) do not have protection against dislodgement tamper and also expose cables to possible tampering.

It is therefore advisable to protect the connections and also the device by installing it inside an enclosure, which can be:

- control panel cabinet, using the appropriate holes on the back plate
- junction box
- electrical cabinet

Note

In order to comply with standard 50131, the enclosure utilized as well as the device itself must be equipped with tamper protection.

2. Using a flat-bladed screwdriver in the enclosure screw location, push open the enclosure and separate the two parts.
3. Insert the SIM card.
4. Wire the remote antenna (for versions of the Nexus with exposed terminals).
5. Wire the communicator.

6. Using the screws, secure the base in position.
7. Complete the enrolling procedure for the peripheral.

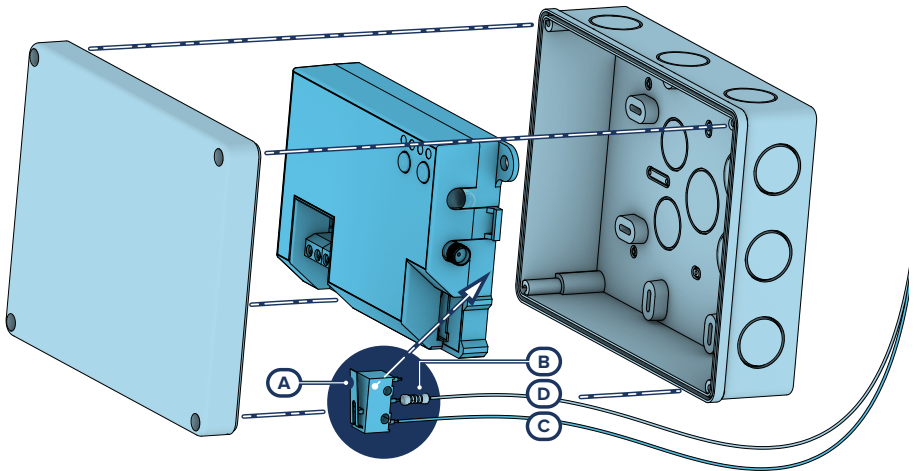
Blinking on the green DL1 LED indicates that the peripheral has been enrolled by the control panel and is communicating correctly with it.

8. Position the remote antenna in the point which provides the best signal reception.
For versions equipped with a stylus antenna, find the appropriate compromise between the signal reception strength and the device placement.

Visualization of the signal reception strength is possible:

- via software, by accessing monitoring of the Nexus
 - from the control panel keypad, through the 'Nexus Status' section
 - from the Nexus via its LEDs, by pressing the **P1** button
9. Wait for the DL4 LED to blink to signal successful registration to the provider network or data transfer.
 10. To activate data transmission, if not set automatically, set via the programming software the APN name of the provider.
 11. For Nexus 4G versions, verify that the 'VoLTE' service is active by using the monitoring software. If not, contact the SIM operator to activate it.
 12. Re-attach the cover to the base and replace the enclosure screw.

2.1 Anti-tamper



The peripherals with visible terminals and which do not have an anti-tamper device can still be equipped with protection by intervening on the assembly procedure.

Please note that in order to comply with security standards, all the control panel peripherals must be protected against tamper.



Here we provide information on one of the possible procedures that can be adopted. This involves the assembly of a microswitch on the device, which signals any attempted tamper, and the consequent programming of the terminal used for this contact.

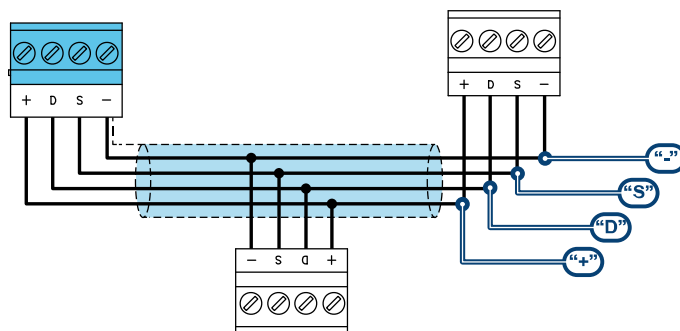
1. Procure a microswitch with at least two normally-open contacts [A] (preferably with 3 contacts: COM-NO-NC).
2. Employ a terminal and program it as a '24H' input, whose description type is 'Tamper', balanced with a single $6K8\Omega$ [B] resistance, unlimited alarm cycles and belonging to a partition that is viewable on at least one keypad.
3. Using 2 wires, connect the microswitch to the '24H' input terminal.
4. On the microswitch:
 - identify the common contact (COM) and connect it using one of the two wires, to the GND terminal of the '24H' terminal [C].
 - identify the normally open contact (N.O., which is the contact that generates a short-circuit between the contact itself and the COM contact when the switch lever is compressed) and connect one end of the $6k8\Omega$ resistor to it [D].Connect the other end of the resistance to the wire which is connected to the '24H' input terminal.
5. Install the microswitch in such a way that under normal conditions the switch lever is compressed. If a tamper attempt occurs, the lever will release thus generating the opening of the contact and an immediate alarm on the '24H' terminal.

Note

This wiring method can be applied in most situations, however, it is only a point of reference. In order to ensure proper protection, you must always take into account the specific mechanical and electrical conditions of the device you are working on.

For compliance with grade 3 of the EN 50131-3 safety standard, the device must be fastened inside an enclosure which is in turn must be protected against forced opening and removal from the wall (for example the control panel enclosure).

2.2 Connecting to the I-BUS line



The peripheral devices of Inim Electronics control panels are to be connected to the control panel via the I-BUS.

The connection between the control panel and its peripherals is achieved through a shielded 4 wire (or more) cable.

Attention!

The shield must be connected to one of the ground terminals (or GND) only on the control panel side and must follow the entire BUS without being connected to ground in other points.

The control panel connection is done using terminals '+ D S -' on the motherboard.

Sizing

The sizing of the I-BUS line, i.e. the distribution of peripherals and the use of cables to connect them, must be done on the basis of various project factors, in order to ensure the diffusion of the signals of conductors "D" and "S" and the power supplied by conductors "+" and "-".

The factors are:

- The current absorption of the connected devices.
In the case of insufficient power supply from the BUS line to peripherals and detectors (refer to the Technical specifications table), this can also be supplied by external power supplies.
- Cable type
The cable section used affects the dispersion of the conductor signals.

Recommended cable

Cable AF CEI 20-22 II	number of conductors	section (mm2)	I-BUS terminal
4 wire cable + shield	2	0.5	+ -
	2	0.22	D S
6 wire cable + shield	2	0.5	+ -
	2	0.22	D S
	2	0.22	available
6 wire cable + shield	2	0.75	+ -
	2	0.22	D S
	2	0.22	available

- Communication speed over the BUS
This parameter can be changed by means of the programming software (38.4, 125 or 250kbs).

BUS sizing

BUS speed	maximum admissible length (sum of the sections downstream of the control panel or of an isolator)
38.4kbps	500m
125kbps	350m
250kbps	200m

- Number and distribution of isolators.
To increase the reliability and the extension of the BUS, it is necessary to use isolators.



3. Programming the Nexus

The programming phase of the Nexus communicator allows the installer to program the actions the control panel will perform after receiving a user command via SMS text and phone call. Each command comprises a group of fully-programmable parameters.

Each time a user makes a request, via an appropriately formatted SMS text or voice call to the SIM card inside the Nexus, the control panel will be able to activate the respective shortcut, force activation of an event and signal confirmation of the successfully implemented command.

Via software

The following parameters can be programmed solely via the Prime/STUDIO software. Click on the **Nexus** button on the menu on the left, or click on the **System Layout** button and select the 'Nexus' option, then go to the section on the right to configure the parameters.



3.1 SMS Commands

In the 'SMS Commands' section it is possible to program up to 30 SMS-activated commands.

To program each command, double click on the corresponding line to open a window for the configuration of the respective parameters.

SMS command parameters		 SMS Com- mands
Parameter		
Action	Identifies the number of the command in the table shown.	
SMS text	This is the identification string to be included in the SMS command.	
Shortcut	This field allows you to select one of the following shortcuts that the control panel can activate: • Arm/Disarm • Stop alarms • Clear call queue • Delete memory • Activate output • Deactivate output • Inhibit (bypass) control panel zones • Activate (unbypass) control panel zones • Nexus status • Credit inquiry • GPRS client	
Shortcut parameter	Selection menu for the parameter relating to the shortcut.	

Parameter		Software section
Shortcut 2	Selection menu for the shortcut which is to be activated after the one selected above.	
Shortcut 2 parameter	As per 'Shortcut parameter' but valid for the 'Shortcut 2' command.	
Confirm	Identifies the type of command feedback: SMS - feedback will be provided by an SMS text to the phone number of the caller (command dispatcher). Ring - feedback will be provided on the phone of the caller (command dispatcher). Positive outcome will be indicated by a 'ring'; negative outcome by 'silence'. Confirmation via SMS text or feedback ring will occur only when the phone number that sent the command is not hidden. Buzzer - feedback is provided by an audible signal on the Nexus buzzer. Positive outcome is indicated by three short audible signals; negative outcome is indicated by five long audible signals.	

Command via SMS message

Users who wish to activate a command via SMS text must enter the command details as follows:

<xxxxxx> <SMS Text>

where:

- <xxxxxx> stands for the PIN of a control panel user
- it is necessary to insert a space (' ') after the PIN
- <SMS Text> which is the command identifier, as previously described

Note

Avoid inserting spaces (' ') inside the <SMS text>.

Example

You wish the control panel to activate 'Scenario 3', switch On the perimeter lights and confirm the operation via SMS text. Proceed as follows:

- 'SMS Text' - choose the desired description, for example 'Night mode'
- 'Shortcut' - select the 'Arm/Disarm' shortcut
- 'Shortcut option': 'Scenario 3'
- 'Shortcut 2' - select the 'Activate output' shortcut
- 'Shortcut option 2' - the output associated with the perimeter lights
- 'Confirm' - SMS

When a user keys in the following SMS text on a mobile (cellular) phone:

123456 NightMode

where '123456' stands for the User's PIN and this message is sent to the number of the SIM card of the Nexus, the control panel will carry out the requested operations and will send an SMS message of confirmation to the mobile phone of the caller who dispatched the command:

NightMode: command done!

Default Commands

By default, commands are predefined and can be modified by the installer:

- 'CONNECT' for a request for remote assistance via SMS text (future use).
- 'CREDIT' for balance enquiries relating to the SIM card of the Nexus, the user will receive an SMS text indicating the remaining credit.



- **'STATUS'** for status enquiries relating to the Nexus, the user will receive an SMS text indicating the:
 - device name and firmware revision
 - network provider
 - signal reception level
 - device tamper status
 - BUS status
 - Balance (remaining credit)
 - scenario active (if present)
- **'EXC'** (or **'ESC'**), to inhibit the control panel zones
- **'INC'**, to activate the control panel zones

For the last two commands, the message text must be:

<xxxxxx> EXC <zone description>

where:

- <xxxxxx> is the PIN of a control-panel user coded, followed by a blank space (' ')
- 'EXC' (or 'ESC' or 'INC') is the command to be implemented on the zone, followed by a space (' ')
- <zone description> is the name zone to be inhibited or activated

3.2 Caller ID commands

The 'Caller ID commands' section allows you to program up to 200 telephone numbers and the commands which will be implemented when each telephone number is recognized by the control panel.

If the phone number sends a call (voice), the command selected by the installer from those programmed in the 'SMS Commands' section will be activated.

Call command parameters

Parameter		Software section
N°	Identifies the number of the command in the table shown.	 Caller ID commands
Name	This is the identification string of the command.	
Telephone number	This is the telephone number which, during a call to the Nexus, will activate the command.	
Access Codes	This field is for the association of a user code (from 1 to 255) to the telephone number. The code determines which partitions the phone-number user can operate on.	
Actions	This is the number that identifies the command option selected from the 30 commands programmed in the SMS Commands section.	
Reject call	If this option is enabled, when the phone number calls, the Nexus will reject the call after generating the requested command. If this option is disabled, when the phone number calls, the Nexus will not reject the call but will allow it to proceed in such a way that the control panel can activate (if duly programmed) the dialer after the programmed number of rings.	
Receive diverted SMS	If this option is enabled the selected number will be able to receive SMS messages diverted from the communicator which do not comply with the command-activation format. If the SMS message is a 'command', it cannot be diverted.	

3.3 Text for SMS messages

In the 'Texts for SMS messages' section you can edit and program up to 50 SMS messages with 80 alphanumeric characters each.

These SMS texts can be associated with the events via the 'SMS number' option, included in the programming menu of single events.

This section, where the SMS messages are listed in a column, contains the following parameters for each message:

- **N°**, identifies the number of the SMS message.
- **Text**, editable field for the SMS text message. The number of characters available is also indicated.

3.4 Parameters of the Nexus communicator

In the 'General parameters' section, it is possible to program some functions relating to the management of the Nexus device, such as: low/remaining credit, input and output volume, disablement of tamper protection and the emergency signalling delay.

General parameters of Nexus

Parameter		Software section	Installer menu section
Enable credit check			General parameters, Remaining credit /
Manual parameters	Request		/
	Answer via SMS		/
			Low credit threshold
Credit request interval	/		
Balancing			General parameters, Volume settings / /
Input volume	/		
Output volume	/		
Disable tamper	This option, if enabled, deactivates tamper signalling on the Nexus communicator.		General parameters, Other parameters / / Parameters Disab. GPRS fault
Emergency signalling delay	This is the delay, expressed in seconds, that the Nexus device applies before generating the 'Nexus lost' event.		/
Disable GPRS fault on keypad	If enabled, this option stops the control panel from signalling the occurrence of specific faults or GPRS connection trouble.		
Fault signaling on insufficient GSM cover	If enabled, this option determines the generation of the 'Nexus fault' event when the GSM cover is poor or insufficient. If disabled, poor GSM cover will not generate a fault event.		Low field enable



Note

The remaining credit control feature is subject to temporary or even permanent unavailability caused by changes in the implementation of the methods used by the GSM/GPRS service provider.

Inim Electronics provides device programming functions which may be capable of restoring this feature, by means of manual changes to the respective parameter settings.

3.5 APN (Access Point Name) parameters

The “GPRS Parameters” section provides the parameters necessary for parameter settings for the provider of the remote connection with the control panel and for the Cloud connection.

Note

These parameters are valid only if a model of Nexus is installed in the control panel and is enabled for data transmission (Nexus/G or 4G).

GPRS parameters

Parameter		Software section
Access point name (APN)	Field for entry of the APN of the GPRS provider. In the event of activation of the control panel 'Automatic APN' option, this parameter will be ignored.	 GPRS parameters
Advanced	This button opens a window for the user's name and password, sometimes required by the provider. If these details are not required, these fields can be left blank.	
Automatic APN	Option that activates automatic search mode of the APN.	

Automatic APN

For Italian operators there is a function that automatically searches for the APN (Access Point Name). By enabling the “Automatic APN” option, you can setup the search automatically. The APN search is carried out at each startup of the control panel, at the end of each programming session and in general when the peripheral modules are inserted or disconnected.

The first time it can take several minutes, however, during subsequent start-ups the time will be reduced to a few tens of seconds.

Following the setting of the automatic APN, the communicator can connect to the Cloud. Successful connection is verified by the lighting up of the blue LED (“CLOUD”) on the main board.

Given the wide variety of SIM cards and services made available by each operator for each SIM, it is possible that the connection system may not be able to find the APN automatically. In this case it will be necessary to remove the “Automatic APN” option from the module programming and operate by setting the APN manually in the relevant field.

Below is a list of operators currently enabled for the automatic APN search.

- Tim
- Vodafone
- WindTRE
- Iliad

4. General information

4.1 About this manual

Manual code: DCMIINE0NEXUS

Revision: 130

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4.2 Manufacturer's details

Manufacturer: Inim Electronics S.r.l.

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Web: inim.it

The persons authorized by the manufacturer to repair or replace the parts of this system have authorization to work only on devices marketed under the brand Inim Electronics.

4.3 Simplified EU Declaration of Conformity

Hereby, Inim Electronics S.r.l. declares that the radio equipment type Nexus is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: inim.it.

4.4 Warranty

Inim Electronics S.r.l.. (Seller, Our, Us) warrants the original purchaser that this product shall be free from defects in materials and workmanship under normal use for a period of 24 months.

As Inim Electronics does not install this product directly, and due to the possibility that it may be used with other equipment not approved by Us, Inim Electronics does not warrant against loss of quality, degradation of performance of this product or actual damage that results from the use of products, parts or other replaceable items (such as consumables) that are neither made nor recommended by Inim Electronics. Seller obligation and liability under this warranty is expressly limited to repairing or replacing, at Seller's option, any product not meeting the specifications. In no event shall Inim Electronics be liable to the purchaser or any other person for any loss or damage whether direct or indirect or consequential or incidental, including without limitation, any damages for lost profits, stolen goods, or claims by any other party caused by defective products or otherwise arising from the incorrect or otherwise improper installation or use of this product.

This warranty applies only to defects in parts and workmanship relating to normal use. It does not cover damage arising from improper maintenance or negligence, damage caused by fire, flood, wind or lightning, vandalism, fair wear and tear.



Inim Electronics S.r.l. shall, at its option, repair or replace any defective products. Improper use, that is, use for purposes other than those mentioned in this manual will void the warranty. Contact Our authorized dealer, or visit our website for further information regarding this warranty.

4.5 Limited warranty

Inim Electronics S.r.l. shall not be liable to the purchaser or any other person for damage arising from improper storage, handling or use of this product.

Installation of this Product must be carried out by qualified persons appointed by Inim Electronics. Installation of this Product must be carried out in accordance with Our instructions in the product manual.

4.6 Documents for the users

Declarations of Performance, Declarations of Conformity and Certificates concerning to Inim Electronics S.r.l. products may be downloaded free of charge from the web address inim.it, getting access to Extended Access and then selecting "Certifications" or requested to the e-mail address info@inim.it or requested by ordinary mail to the address shown in this document.

Manuals may be downloaded free of charge from the web address inim.it, getting access to the reserved area, after the login, and then to the section of each product.

4.7 Disposal of the product



Informative notice regarding the disposal of electrical and electronic equipment (applicable in countries with differentiated waste collection systems)

The crossed-out bin symbol on the equipment or on its packaging indicates that the product must be disposed of correctly at the end of its working life and should never be disposed of together with general household waste. The user, therefore, must take the equipment that has reached the end of its working life to the appropriate civic amenities site designated to the differentiated collection of electrical and electronic waste. As an alternative to the autonomous-management of electrical and electronic waste, you can hand over the equipment you wish to dispose of to a dealer when purchasing new equipment of the same type. You are also entitled to convey for disposal small electronic-waste products with dimensions of less than 25cm to the premises of electronic retail outlets with sales areas of at least 400m², free of charge and without any obligation to buy. Appropriate differentiated waste collection for the subsequent recycling of the discarded equipment, its treatment and its environmentally compatible disposal helps to avoid possible negative effects on the environment and on health and favours the re-use and/or recycling of the materials it is made of.



Information about disposal of batteries and accumulators (applicable in Countries with separate collection systems)

This marking on batteries and/or their manual and/or their packaging, indicates that batteries of this products, at the end of their working life, should not be disposed of as unsorted municipal waste, but must be object of a separate collection. Where marked, the chemical symbols Hg, Cd o Pb indicate that the battery contains mercury, cadmium or lead above the reference levels of the directive 2006/66/EC. If batteries are not properly disposed of, these substances, together with other ones contained, can cause harm to human health and to the environment. To protect human health and the environment, to facilitate treatment and recycling of materials, separate batteries from other kind of waste and use the collection scheme stated in your area, in accordance to current laws. Before disposing of the above, it's appropriate to remove them from their holders avoiding to damage them or causing short circuits.



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