

EC-11

Ethernet Converter

PSTN Contact ID to TCP Converter

Installation and Operations Manual

Version 8.H3.MID



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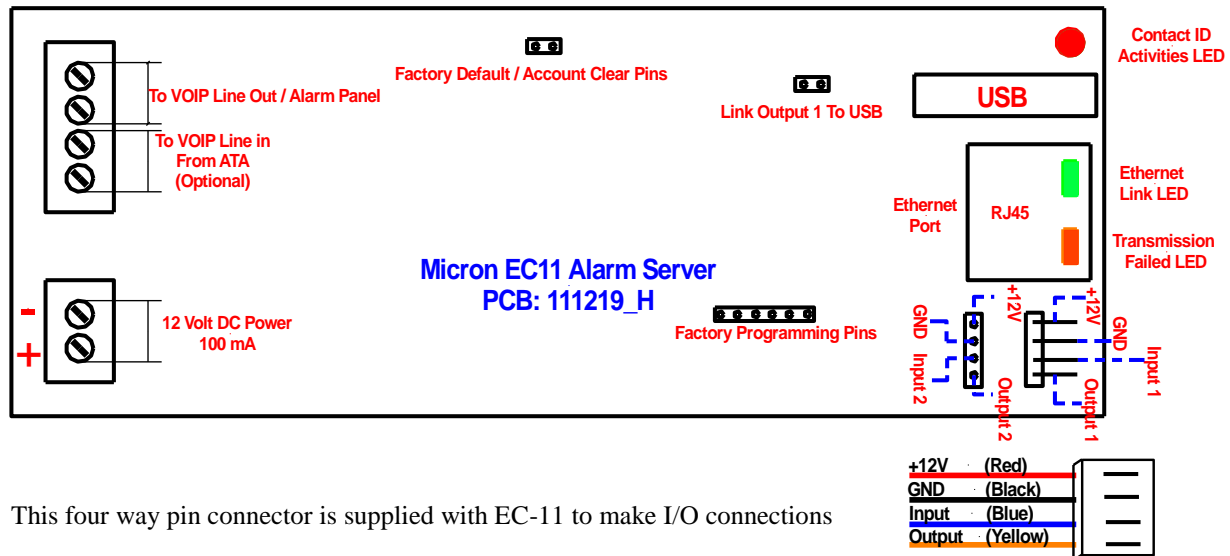
About EC-11 Ethernet Converter

The EC-11 converts any alarm Panel's Contact ID signals in CSV Format to TCP segments and then transmits those segments in IP packets over the internet. A central monitoring station with the CSV Format implemented in their CMS software or running micron's receiver software can receive the TCP/IP packets sent by the EC-11 with the correct setup.

The EC-11 can differentiate between a DTMF alarm panel call to a monitoring station phone number and a regular VoIP call.

The EC-11 is factory defaulted to DHCP to automatically obtain EC-11's IP address from a gateway router. Search and download the 'Micron Device Finder' App from iTunes for IOS devices or the Google Play Store for Android devices to find EC-11's IP address on the network.

Circuit Board Layout and Wiring Diagram



This four way pin connector is supplied with EC-11 to make I/O connections

The **Factory Default/Account Clear Pins** can be used in the following ways:

- Power down the EC-11, maintain a short of the two pins and power the unit up, then remove the short. Performing these steps will **factory default** the EC-11.
- While the EC-11 is powered up, short these two pins and then remove the short. Performing these steps will **Clear the Ecxx Account Number and Panel Account Number** to 0000000000 (10 digits) in the **Monitoring** tab (see later section).

Link Output 1 to USB Pins

Link these pins to enable output 1 to reset a USB connected mini WiFi router when a programmed Gateway Failure event occurs.

EC-11 Setup Procedures and the User Interface

➤ Physical Connections

Refer to the “**EC-11 Layout Diagram**” and connect the “**VOIP line out / Alarm Panel**” to the “**TELCO LINE - IN**” of your alarm panel. Connect the EC-11 to your Gateway Router using an Ethernet cable. Apply **12VDC** to the EC-11 board.

To enable external remote access to the EC-11, the customer’s router must be “**port forwarded**” or “**UPnP enabled**”. Use the **public IP address** (eg 123.234.1.234) of the gateway the EC11 is connected to and the **remote port** (eg 4566) which is assigned in the device **user interface** and enter the **URL** <http://123.234.1.234:4566> in the web browser to connect to EC-11 remotely. See ‘Network’ page 13 for further explanation of remote ports.

➤ Connecting Inputs and Outputs

Use the wire harnesses supplied to connect EC-11’s two outputs to alarm inputs on any brand of alarm panel for alarm control from the ‘**Micron Control**’ App. EC-11’s two inputs can be used to report the connected alarm’s status. Additional circuitry such as a relay may be required. See ‘**Micron Control**’ App on page 18.

➤ USB Connector and 3G Mini WiFi Router

The EC-11’s USB connector provides power for micron’s mini WiFi 3G router. This router can be setup as either a WiFi bridge to an on-site router or as a 3G communication gateway. See connection diagram on page 20.

➤ Connect to EC-11 using a Web Browser

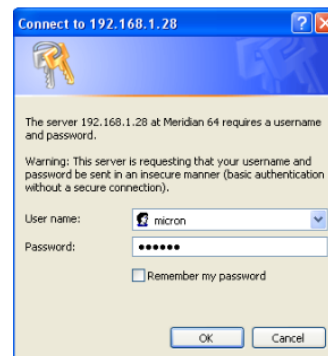
Connect to the EC-11 using any compatible internet browser (Internet Explorer, Google Chrome, Firefox or Safari) on any computer or smart phone with an internet connection.

Enter the EC-11’s IP address in your web browser and press “Enter”. A new window will prompt for Username and Password:

The factory default is:

Username: **micron**

Password: **micron**



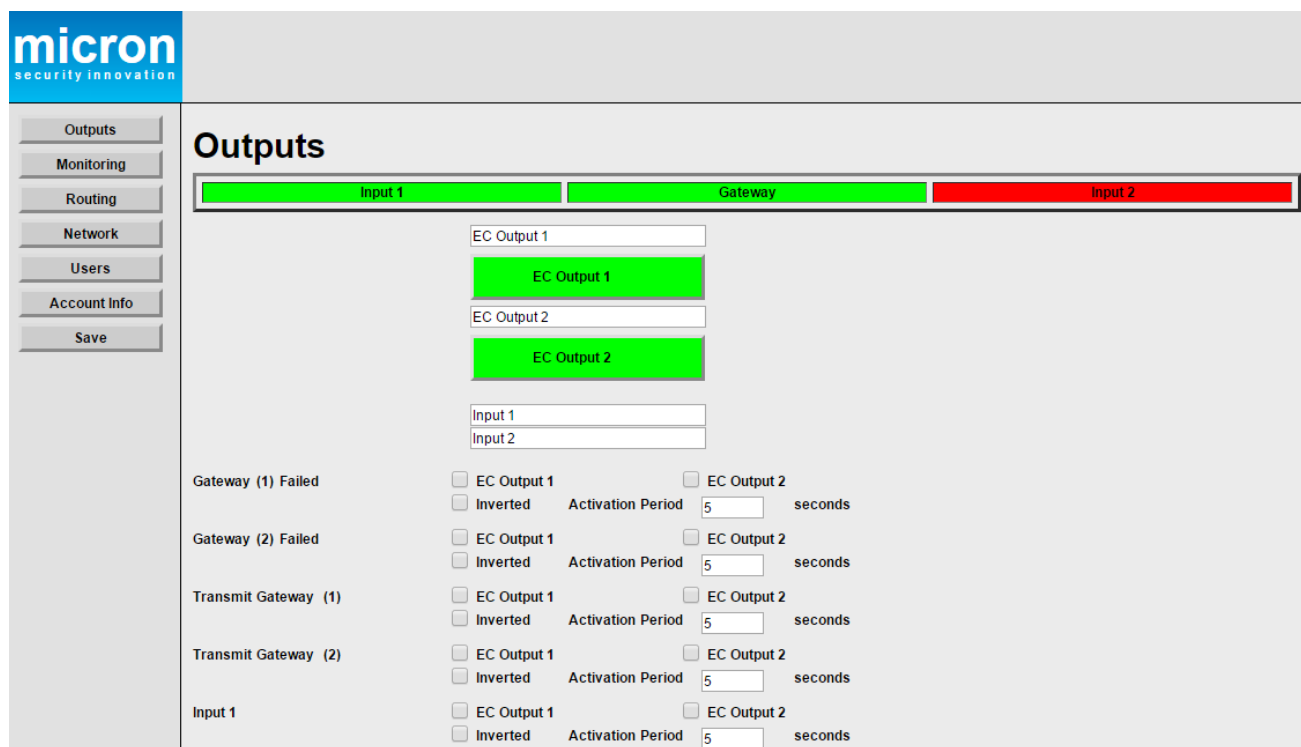
After entering the appropriate username and password, click “OK” and a connection will be established to the EC-11. The User Interface will now appear in your web browser.

Alternatively, locate EC-11 with the ‘**Device Finder**’ App, tap the device icon, enter the login and password when prompted and touch “log in” to connect.

Or download the new ‘**Micron Control**’ App to connect directly to EC-11 from within the App, setup push notifications and access the connected alarms cloud based event reporting log.

➤ Output Tab

The **Outputs** tab allows you to view the EC-11 status or to programme the outputs.



Gateway

When the Gateway indicator is green this means the connection is secure. When the indicator is red a Fault condition exists.

Input 1 and Input 2

These indicators reflect the state of the inputs on the EC-11 circuit board. Select reporting options in the Monitoring Tab to report event messages to MyMeridian or a monitoring station.

EC Output 1 and 2

These buttons work to turn on or off the **EC output** pins on the EC11. These outputs can be used to automatically reboot routers when an internet connection is dropped, arm or disarm a connected alarm panel using a key switch input or control a garage door. Additional circuitry, such as a relay may be required.

Change the **EC Output** name to something more meaningful to the user by over-typing into the text-input field and then clicking the “**Save**” tab.

Gateway (1) Failed

Network communication failure on Gateway (1) will trigger the “EC Output” if selected. This output can be used to reset the router after a communication fail event. Checking the “Inverted” check-box will invert the output. “Activation Period” is the time in seconds that the output will be turned on (off if inverted).

Gateway (2) Failed

Network communication failure on Gateway (2) will trigger the “EC Output” if selected. This output can be used to reset the router after a communication fail event. Checking the “Inverted” check-box will invert the output. “Activation Period” is the time in seconds that the output will be turned on (off if inverted).

Transmit Gateway (1)

Output turns on for the duration of the selected “Activation Period” when a transmission occurs on Gateway (1). The output can be inverted by checking the “Inverted” box.

Transmit Gateway (2)

Output turns on for the duration of the selected “Activation Period” when a transmission occurs on Gateway (2). The output can be inverted by checking the “Inverted” box.

Click on the **Monitoring** tab to view and configure the monitoring related information.

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Monitoring

Choose file No file chosen Restore Backup

Ecxx Account Number User Name
 Panel Account Number Password

| Contact ID Events | Code | Gateway (1) | Gateway (2) |
|----------------------|----------------------------------|--------------------------------|--------------------------------|
| Reset | <input type="text" value="305"/> | <input type="text" value="1"/> | <input type="text" value="2"/> |
| Communication Failed | <input type="text" value="354"/> | <input type="text" value="1"/> | <input type="text" value="2"/> |
| Input 1 | <input type="text" value="000"/> | <input type="text" value="0"/> | <input type="text" value="0"/> |
| Input 2 | <input type="text" value="000"/> | <input type="text" value="0"/> | <input type="text" value="0"/> |
| Web Access | <input type="text" value="412"/> | <input type="text" value="1"/> | <input type="text" value="2"/> |
| Periodic Test (1) | <input type="text" value="602"/> | <input type="text" value="1"/> | <input type="text" value="2"/> |
| Periodic Test (2) | <input type="text" value="603"/> | <input type="text" value="2"/> | <input type="text" value="1"/> |
| Panel Messages | | <input type="text" value="1"/> | <input type="text" value="2"/> |
| Panel CID 1 | <input type="text" value="000"/> | | |
| Panel CID 2 | <input type="text" value="000"/> | | |
| Panel CID 3 | <input type="text" value="000"/> | | |
| Panel CID 4 | <input type="text" value="000"/> | | |

Test Period seconds
 Test Period seconds

Gateway (1)
 IP Destination (1) DNS Address (1)
 Destination Port (1)

Gateway (2)
 IP Destination (2) DNS Address (2)

Choose File, Restore, Backup

The EC-11’s settings can be backed up by clicking on the “**Backup**” button. Enter a name for the backup file in the popup window and click “Save”. The backup file is in **.xml** format. To restore from a backup file, click the “**Choose File**” button and select a saved file, then click the “**Restore**” button.

Ecxx Account Number

This is an account number used for identifying the EC-11’s internal event messages, such as a reset or a periodic test transmitted to MyMeridian and/or a monitoring station.

Panel Account Number

This is an account number used for identifying the alarm panel. Messages received from the panel are transmitted to MyMeridian and/or a monitoring station with this account number.

If the Panel and the Ecxx account numbers are set to **0000000000** (10 digits), after a successful alarm transmission to a monitoring station, the EC-11 will automatically fill both the **Ecxx Account Number** and **Panel Account Number** fields with the account number stored in the alarm panel.

Username and Password

The username and password associated with the unique QR code for the EC-11 are factory loaded in these fields to enable MyMeridian event reporting. Removing the content of these fields will disable MyMeridian reporting.

Contact ID Events

A Contact ID code can be specified for each event to be transmitted to the monitoring station.

The EC-11 can be connected to two internet gateways. The numbers in the **Gateway (1)** and **Gateway (2)** columns indicate the reporting priority. A **1** indicates the first priority and **2** means secondary priority. If **0** is entered in a gateway column, that event will not be transmitted via that gateway.

If **Gateway (1)** and/or **Gateway (2)** are selected for sending contact ID events, EC-11 will attempt to deliver those messages using the assigned Gateway(s).

| Contact ID Events | Code | Gateway (1) | Gateway (2) | | | |
|----------------------|------|-------------|-------------|-------------|------|---------|
| Reset | 305 | 1 | 2 | | | |
| Communication Failed | 354 | 1 | 2 | | | |
| Input 1 | 000 | 0 | 0 | | | |
| Input 2 | 000 | 0 | 0 | | | |
| Web Access | 412 | 1 | 2 | | | |
| Periodic Test (1) | 602 | 1 | 2 | Test Period | 3600 | seconds |
| Periodic Test (2) | 603 | 2 | 1 | Test Period | 3600 | seconds |
| Panel Messages | | 1 | 2 | | | |
| Panel CID 1 | 000 | | | | | |
| Panel CID 2 | 000 | | | | | |
| Panel CID 3 | 000 | | | | | |
| Panel CID 4 | 000 | | | | | |

Reset

Sent when the following resets occur

Event 305 (Reset Event)

| Area | Zone | Description |
|------|------|------------------------------|
| 01 | 2 | Cold Reset; sent on power up |
| 01 | 3 | Watch Dog; software reset |
| 01 | 4 | Web connection reset |

Communication Failed

Sent to the central station when a communication fail event has occurred. This event transmits the communication failure of the panel as an Area and a Zone, defined as follows.

Event 354 (Communication Failed)

| Area | Zone | |
|------|------|--|
| 99 | 01 | Gateway 1 IP Destination 1/IP Destination 2 Failed |
| 99 | 02 | Gateway 2 IP Destination 3/IP Destination 4 Failed |
| 99 | 07 | Line Sense Voltage |
| 99 | 08 | Alternate Gateway Failure – Gateway 1 |
| 99 | 07 | Alternate Gateway Failure – Gateway 2 |
| 99 | 11 | Panel Kiss-Off Window Error (network latency problem) |
| 99 | 12 | No message after four attempts and/or remote socket closed |
| 99 | 13 | Fault in DTMF Format (unknown communication protocol) |
| 99 | 14 | Checksum Error (incorrect checksum received) |
| 99 | 15 | Blank Message |
| 99 | 16 | Ethernet Link Error (Cable has been disconnected) |

Input 1 and Input 2

Defaults are 000 and no events are transmitted.
Enter the CID code of the event to be reported.

Web Access

Sent to MyMeridian or the central station when EC-11 is accessed for programming or operational control. Area sent will be 01 and the Zone will indicate the **User Code**; where 001 indicates User Code 1, 002 indicates User Code 2 and so on and 000 indicates an unauthorized user. When a username and password are entered incorrectly three times, the keypad access is locked for 5 minutes.

Periodic Test (1) & (2)

Sent to MyMeridian or the central station when a periodic system test occurs for the selected paths at the programmed time.

Panel Messages

All Panel CID messages.

Panel CID 1-4

These fields can be over typed and used to make messages more meaningful to the end user when using MyMeridian.

Gateway (1) and Gateway (2) Setup

| | | | |
|--------------------|---|----------------------|---|
| Gateway (1) | | | |
| IP Destination (1) | <input type="text" value="192"/> <input type="text" value="168"/> <input type="text" value="1"/> <input type="text" value="7"/> | DNS Address (1) | <input type="text" value="alarms.co.nz"/> |
| | | Destination Port (1) | <input type="text" value="27000"/> |
| IP Destination (2) | <input type="text" value="192"/> <input type="text" value="168"/> <input type="text" value="1"/> <input type="text" value="7"/> | DNS Address (2) | <input type="text" value="alarms.co.nz"/> |
| | | Destination Port (2) | <input type="text" value="27000"/> |
| Gateway (2) | | | |
| IP Destination (1) | <input type="text" value="192"/> <input type="text" value="168"/> <input type="text" value="1"/> <input type="text" value="7"/> | DNS Address (1) | <input type="text" value="alarms.co.nz"/> |
| | | Destination Port (1) | <input type="text" value="27000"/> |
| IP Destination (2) | <input type="text" value="192"/> <input type="text" value="168"/> <input type="text" value="1"/> <input type="text" value="7"/> | DNS Address (2) | <input type="text" value="alarms.co.nz"/> |
| | | Destination Port (2) | <input type="text" value="27000"/> |
| EC 1x Area | <input type="text" value="99"/> | | |
| | <input type="checkbox"/> Reserved | | |
| | <input checked="" type="checkbox"/> CSV++ | | |
| | <input type="checkbox"/> Reserved | | |
| | <input checked="" type="checkbox"/> Tone Gen. | | |

No changes required when using MyMeridian event reporting. Removing or changing the alarms.co.nz DNS and destination port data will disable MyMeridian cloud based event log reporting and alarm push notifications.

It is important to enter the correct IP addresses for a central monitoring station and the port numbers on which the monitoring software is listening in the Gateway (1) and Gateway (2) fields. This information can be obtained from your monitoring station. Two **IP destinations** can be entered for each gateway.

If a DNS address is entered, this will override the IP destination address.

EC 1x Area

This code differentiates internally generated EC-11 messages from alarm panel messages. Enter the code required by the monitoring station to differentiate EC-11 reporting.

CSV++

Selecting this option reports actual partition, area and zone names in the MyMeridian event log and in push notifications.

Tone Gen.

Ticked by default to enable EC-11 to generate a dial tone for the connected alarm panel. Unticked if the alarm panel is set to blind dialling.

DTMF Delay (1) – (4) No change required. Leave as default.

DTMF Tone Gen. (1) – (3) No change required. Leave as default.

Should these values need to be changed the following describes these values in more detail.

DTMF Delay (1) [150] [x10ms] Minimum panel quiet period signalling panel dialling is complete
Maximum EC-11 wait period until retrying a second panel handshake

DTMF Delay (2) [50] [x10ms] Maximum EC-11 wait period between DTMF tones and end of the panel message

DTMF Delay (3) [2660] EC-11 kiss off length in 1400Hz cycles
DTMF (3) = 2 x 1400 x kiss off length required in seconds

DTMF Delay (4) [100] [x10ms] If the Maximum time a panel waits for a kiss off is exceeded, EC-11 activates its 'sliding window' function to kiss off repeated messages within this communication and before a socket timeout. See also Time Out in Network Tab

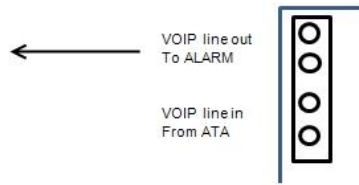
DTMF Ton Gen (1) (201) 'Frequency' = $1 \div (256 - \text{Gen (1)} \times 40.96\mu\text{sec})$

DTMF Ton Gen (2) (800) Number of frequency cycles on
(1 ÷ 'Frequency') x Gen (2) = seconds on

DTMF Ton Gen (3) (150) Number of frequency cycles off
(1 ÷ 'Frequency') x Gen (3) = seconds off

Phone Numbers

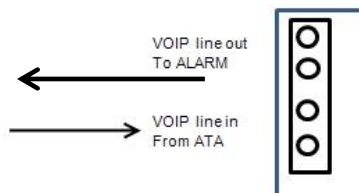
If there is no connection to the EC-11's **VoIP Line In** type **No Capture** (case sensitive) in the **Phone Number (1)** field.



In **No Capture** mode power to the phone line is provided by the EC-11.

If the **VoIP Line In** of the EC-11 is connected to the VoIP output of your gateway then:

- 1: If the phone number(s) the alarm panel uses to dial out are **known**, then type them into each Phone Number field. Only these numbers will trigger EC-11 to convert the Contact ID signals to IP.
- 2: If the phone number(s) the alarm panel uses to dial out are **unknown**, **Capture Mode** must be selected. Type **Capture** (case sensitive) in the **Phone Number (1)** field.



You must now activate a panel transmission and receive a successful acknowledgement from MyMeridian or the monitoring station for the EC-11 to **capture** that phone number as the monitoring station number. Only this number will then trigger EC-11 to convert the Contact ID signals to IP.

(Only one phone number can be captured automatically).

In Capture mode line voltage is provided by the VoIP line.

The screenshot shows the 'Network' configuration page. On the left is a navigation menu with buttons for 'Outputs', 'Monitoring', 'Routing', 'Network' (selected), 'Users', 'Account Info', and 'Save'. The main area is titled 'Network' and contains a 'Reboot' button. Below this are several configuration fields:

- MAC Address:** 00 01 02 03 04 28
- IP Address:** 192 168 1 28
- Subnet:** 255 255 255 0
- DNS Server:** 8 8 8 8
- Remote Port:** 80
- Gateway (1):** 192 168 1 1, **Sync:** 180 seconds, **Maximum Resets:** 5, **Within:** 3600
- Gateway (2):** 192 168 1 1, **Sync:** 180 seconds, **Maximum Resets:** 5, **Within:** 3600
- Time Out:** 200 x10ms
- TCP/IP Packet Size:** 1432
- After Reset Delay:** 1
- UPnP:**
- DHCP (1):**
- DHCP (2):**

MAC Address

This is the MAC address of your EC-11 board. If you have more than one EC-11 board on the same local network, you **must** ensure that each board has a unique MAC address.

IP Address

This is the IP address of the EC-11 board. EC-11 is factory defaulted to DHCP (see page 3). If the network router is not DHCP enabled then the IP address entered in this field will be used. If you have more than one EC-11 board on the same local network, the IP address of each board **must** be unique.

Subnet

Indicates which portion of the IP address is the network address.

DNS Server

This is the domain name server address. No changes required.

Remote Port

This is the port number that is used to login to the EC-11 from a WAN (wide area network). No matter what Remote Port is assigned; port **80** is always used by EC-11 on the LAN (local area network).

Gateway (1) and Gateway (2)

Gateway IP addresses to which the EC-11 will be connected if DHCP is not selected.

Gateway (1) & Gateway (2) Sync When a router is powered on, it takes a short period to successfully connect to an outside network. The values in these fields specify the period after a router restart that EC-11 will wait before it checks for gateway connectivity (do not make this value too short). The maximum number of permitted router resets within a defined period is recorded in the two adjacent fields.

Maximum Resets: Within When an output is used to reset a router this sets the number of router resets permitted in the period in seconds

Time Out The time in x10ms intervals that EC-11 waits until a packet is considered to be lost and is re-sent. Packets are retried a maximum of 4 times. This value multiplied by 4 is the maximum time the socket will be kept open. Change to a higher number for slow networks (500 works best for 3G).

TCP/IP Packet Size Define the TCP/IP packet size (MTU - no change required)

After Reset Delay Time before attempting to re-transmit after a router reset to allow the router to synchronise with the network

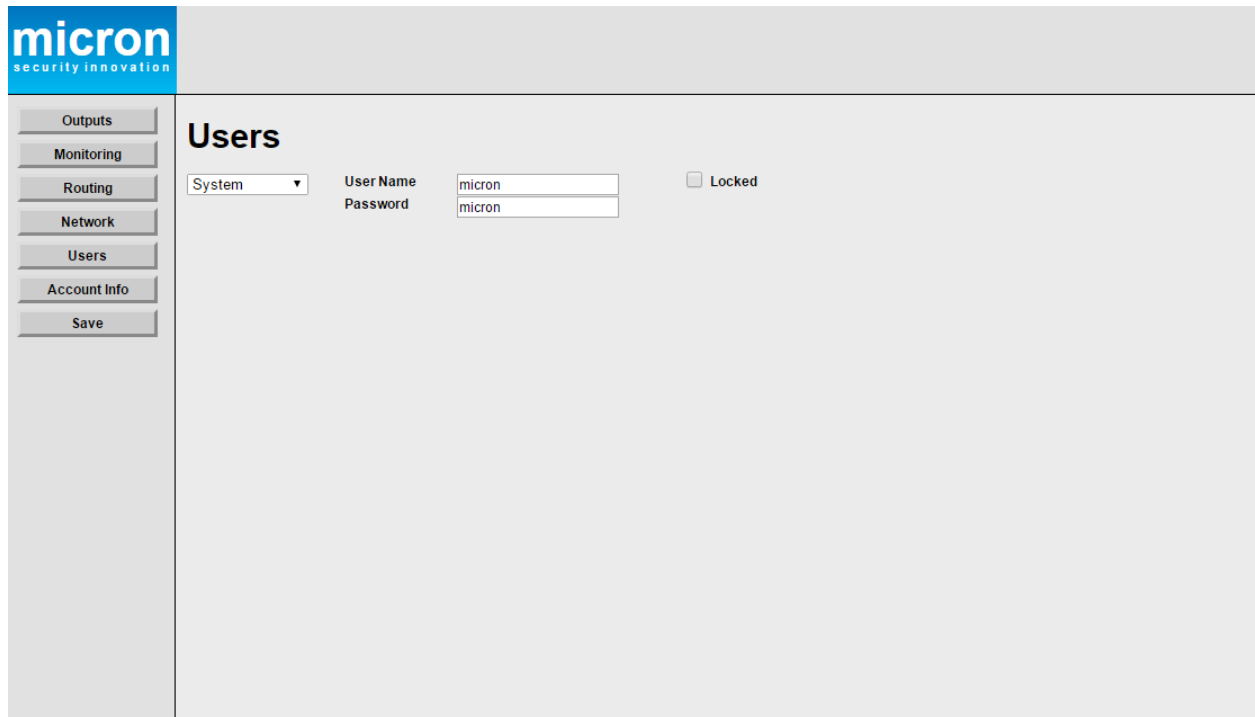
UPnP If your router is UPnP enabled and this box is checked, your router will forward all incoming traffic for the port specified in **Remote Port** to the connected EC-11. This enables remote access to the EC-11.

DHCP (1) and DHCP (2) DHCP options are used to automatically obtain EC-11 Lite's IP address from a gateway router. To use DHCP, tick the checkboxes according to the physical configuration of the network. EC-11 is factory defaulted to DHCP.

DHCP (1); Tick this option if DHCP is active on Gateway1.

DHCP (2); Tick this option if DHCP is active on Gateway2.

As EC-11 is defaulted to DHCP launch the “**Device Finder**” or “**Micron Control**” App to find the EC-11's IP address and connect. When located, swipe the device icon to the right to access the device's installation manual.



User Codes

You can set up to 30 end user codes for each EC-11 and assign each user a different username and password and a different level of system access authority. You cannot assign anyone a higher access authority to your own.

System Code

Defined as the owner of the EC-11 Unit. The **System Code** can check the **Locked** box to make nominated tabs inaccessible to other users. If **Locked** is checked, the **Monitoring** tab is only accessible to the **System Code**.

Installer Code

Setup and defined by the System Code.

User Codes 1 to 30

Defined as the final user codes by the **Installer Code**.

➤ Account Info Tab

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Compiled : Nov 19 2015 15:43:36

Account Info

Installer

Name: INSTALLER
Address: _____
City: _____
Post Code: _____
Phone: _____
E-mail: _____

Monitoring Station

Name: MONITORING
Address: _____
City: _____
Post Code: _____
Phone: _____
E-mail: _____

Site

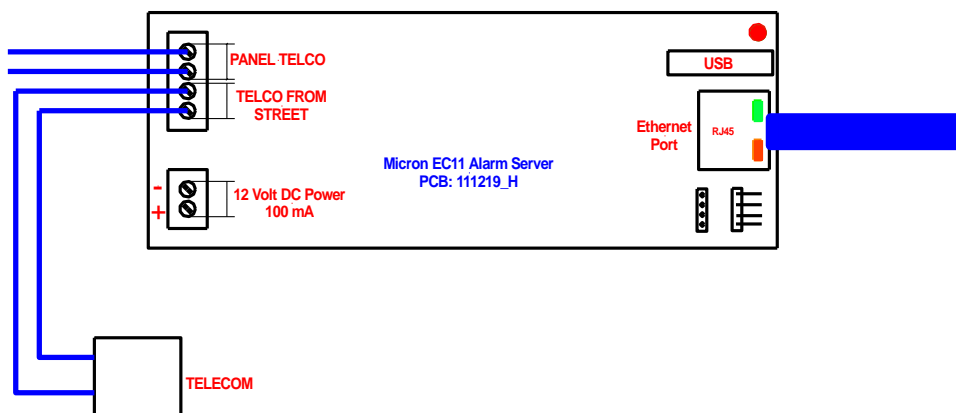
Name: SITE
Address: _____
City: _____
Post Code: _____

The Installer Name, Monitoring Station and Site details can be entered in this page.

➤ Save Tab

Use this tab to save any setting changes that have been made.

Pass Thru Communications



EC-11 provides incoming and outgoing Pass Thru to enable:

- 1 Incoming upload and download to any brand of alarm panel + Voice
- 2 Outgoing PSTN and VoIP backup + Voice

EC-11 inbound pass thru enables any brand of alarm panel to be uploaded and downloaded using legacy PSTN connected software and voice pass thru for medical alarms.

EC-11 outbound pass thru provides a backup for PSTN, VoIP and voice communications.

➤ **Alarm Programming for Outbound Pass Thru**

The following programming example enables outbound pass thru to any micron Scorpion alarm. Programming will vary for other brands of alarm panels.

In the EC-11 **Routing Tab** overwrite **No Capture** with **0000** in the Phone Number (1) field

TELCO First; IP Backup

In Location 0, program the monitoring station receiver number, then the protocol digits, then four zeros and the protocol digits to enable IP backup.

EXAMPLE 1234567*590000*59

IP First; Telco Backup

In Location 0, program four zeros, then the protocol digits for IP, then the monitoring station receiver number, then the protocol digits to enable Telco backup.

EXAMPLE 0000*591234567*59

Account Code

Enter the account code at Location 164

Dialer

Enter the dial attempts you require at Location 361 (Default 8)

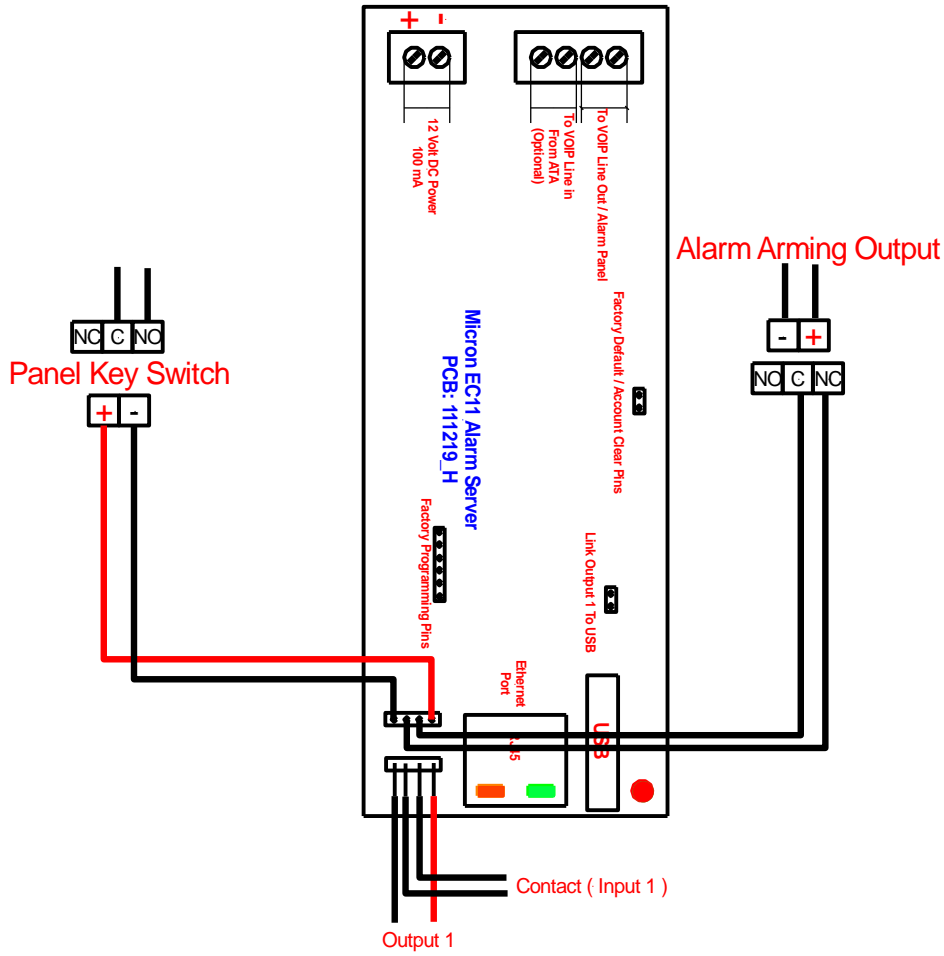
Test Time

Set the test time at Location 180

EC-11 Inputs

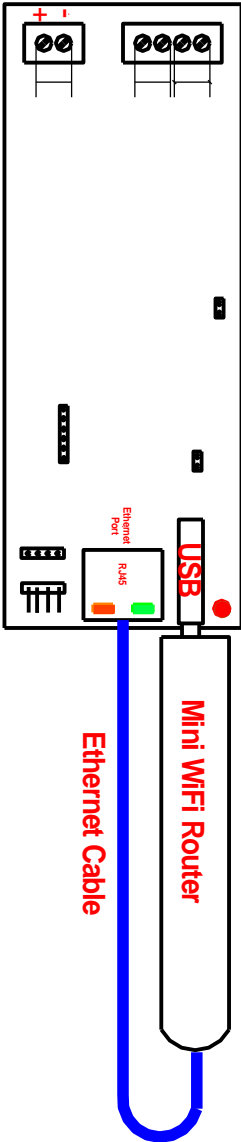
These will only report to IP, **NOT** Telco

EC-11 Input Output Wiring Diagram



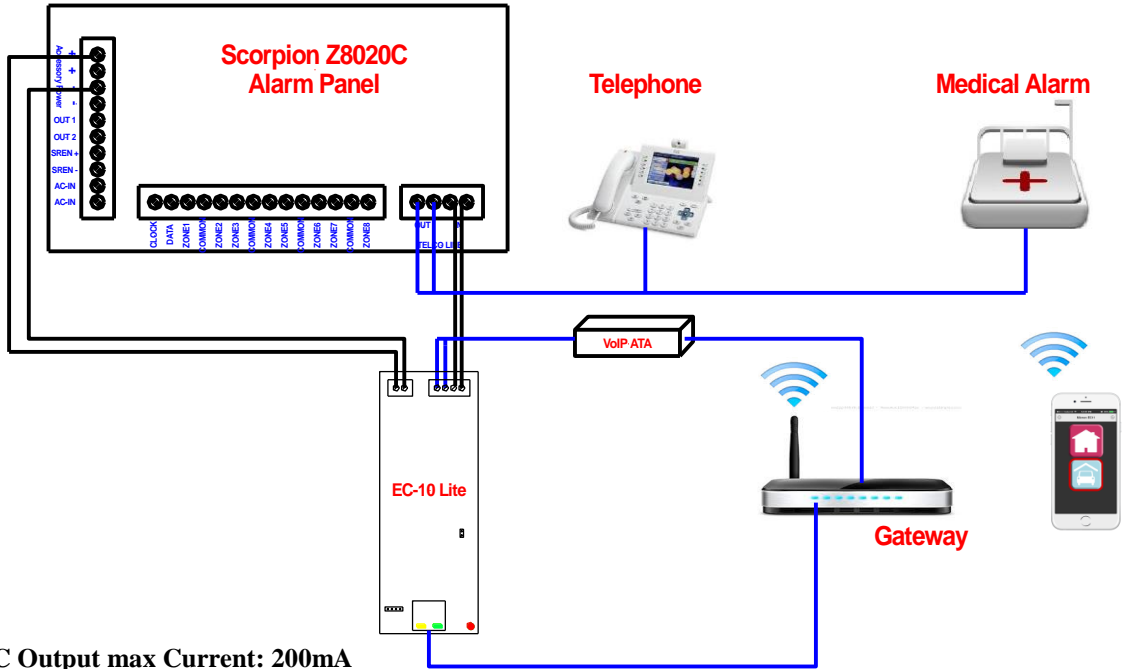
Mini WiFi Router Connection

Refer to the mini WiFi 3G router programming documentation for setting the mini router as either a WiFi bridge or as a 3G communication gateway.



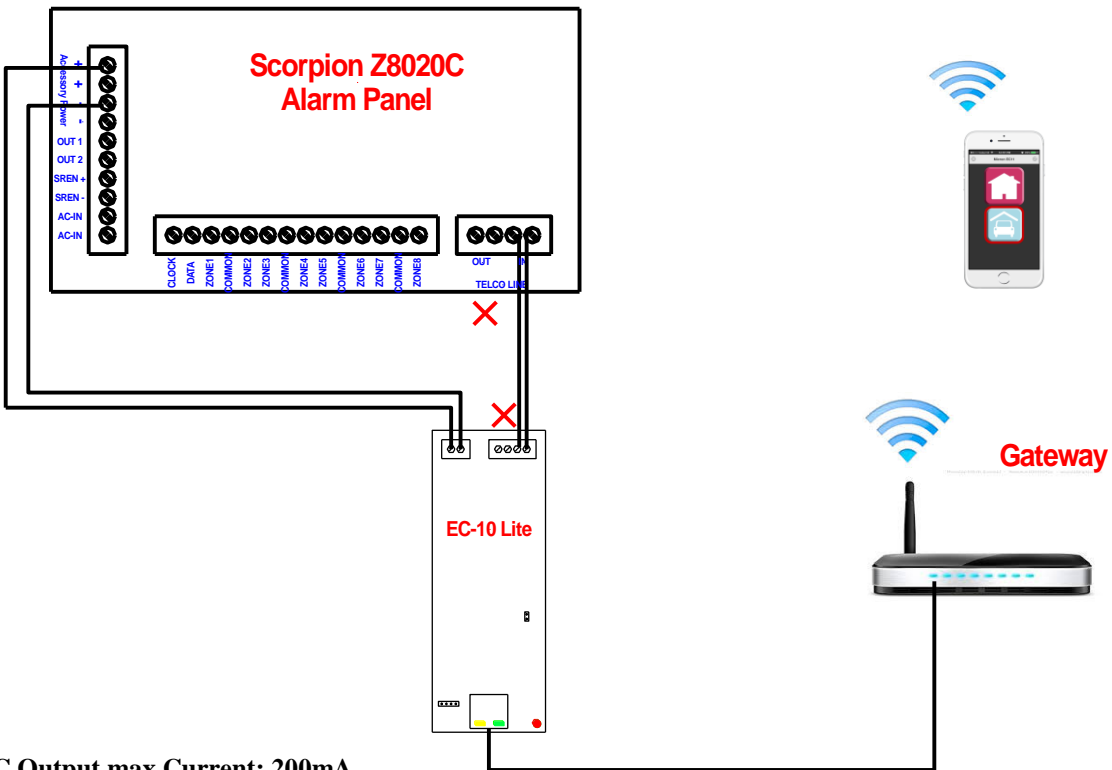
EC-11 Connection Diagrams

➤ Capture Mode



EC Output max Current: 200mA
(Open collector output)

➤ No Capture Mode



EC Output max Current: 200mA
(Open collector output)

EC-11 Quick Communications Setup Using MyMeridian

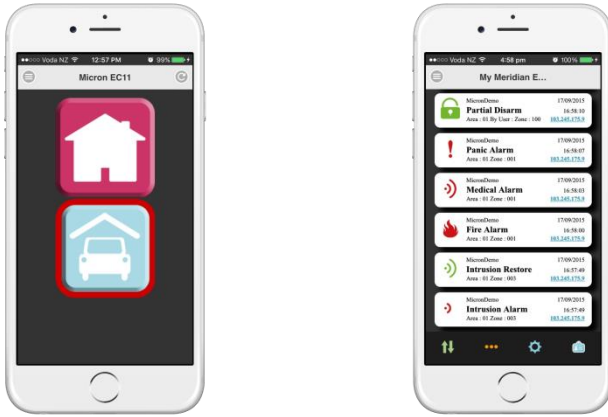
- 1 My alarm panel is configured to transmit in Contact ID format Go to Step 3
- 2 **Configure your alarm panel to transmit in Contact ID format**
- 3 My alarm panel is already connected to a monitoring station Go to Step 5
- 4 My alarm panel is already connected to a phone line Go to Step 5
- 5 DHCP is activated on my Router / Gateway Go to Step 7
- 6 **Activate DHCP on your Router / Gateway**
- 7 Disconnect the phone line from the alarm panel
- 8 Connect the two wires from the alarm panel phone line to EC-11 alarm 'panel'
- 9 Connect the Ethernet cable to the Router / Gateway
- 10 Connect the AUX +ve and -ve from alarm panel to power on the EC-11
- 11 Scan the EC-11 QR code and connect to MyMeridian
- 12 Check MyMeridian to confirm you have received a reset from the EC-11
- 13 Check MyMeridian received messages from your alarm panel

EC-11 Quick Setup to a Monitoring Station

After confirming EC-11 is communicating successfully to MyMeridian:

- 1 Call the Monitoring Station
- 2 Get the Destination IP address(s) from the Monitoring Station
- 3 Get the Destination Port Number(s) from the Monitoring Station
- 4 Get the Username and Password from the Monitoring Station
- 5 Get the Account Number from the Monitoring Station
- 5 Go to the Monitoring Tab
- 6 Enter the Account Number given by the Monitoring Station
- 7 Enter the Username and Password given by the Monitoring Station
- 8 Enter the Destination IP address(s) given by the Monitoring Station in IP 1/2/3/4
- 9 Remove 'alarms.co.nz' from DNS Addresses 1/2/3/4
- 10 Enter the Port number(s) given by the Monitoring Station in Destination Port 1/2/3/4
- 11 Untick CSV++
- 12 Click Save
- 13 Go to the Network Tab and Click the **Reboot** button
- 14 Check the Monitoring Station is receiving signals successfully

Micron Control App



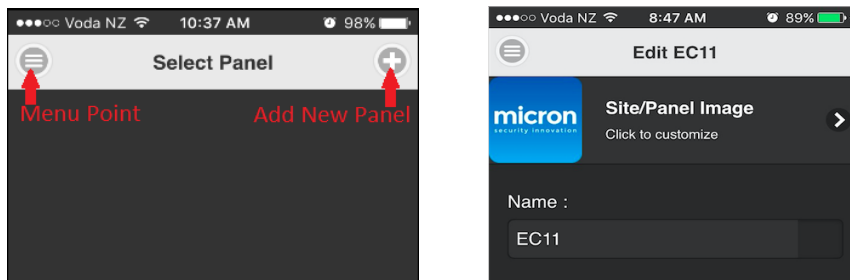
Download the **Micron Control** App from iTunes or Google Play for EC-11 control of arming, disarming and output control of any connected alarm panel.

Use the App to register for alarm event push notifications from the connected alarm panel to selected smartphones and to access micron's MyMeridian cloud based event reporting log, anywhere, anytime.

➤ Micron Control App and MyMeridian Setup

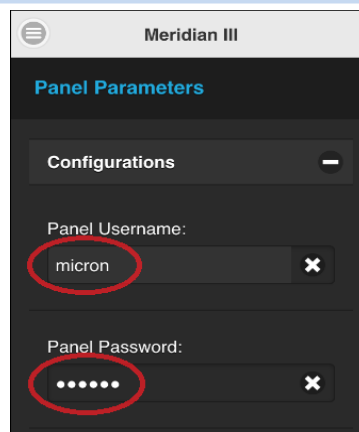
Follow this procedure when first installing the Micron Control App on its **local network**.

1 Touch Add New Panel; Enter Details and Save



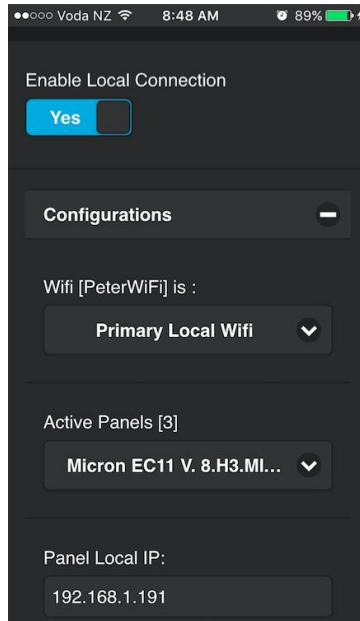
2 Touch Select Panel

3 Network Setup – Panel Parameters (Update Username and Password)



4 Enable Local Connection = Yes

6 Expand Network Configurations; WiFi, Panel and Local IP Auto Populate

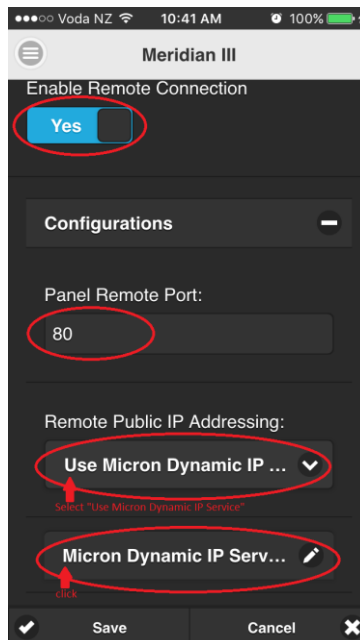


7 Enable Remote Connection = Yes

8 Expand Network Configurations; Enter Panel Remote Port

9 Remote Public IP Addressing; Select 'Use Micron Dynamic IP Service'

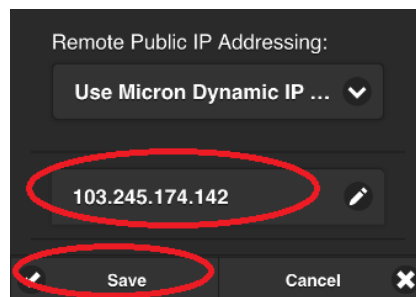
10 Touch 'Micron Dynamic IP Service' Button



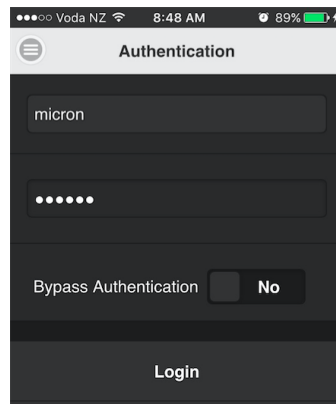
11 Touch Scan QR Code; Scan Product QR Code, Touch Done to Confirm



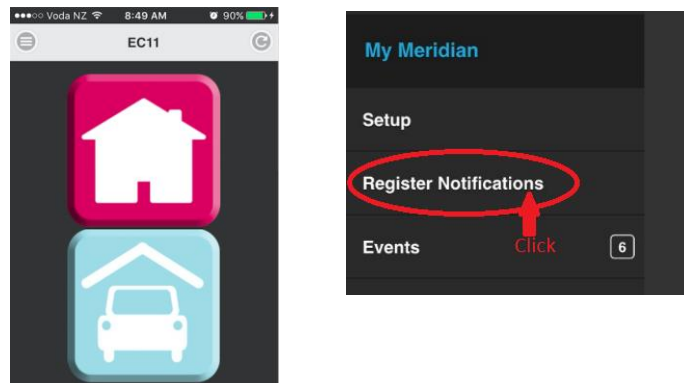
12 Public IP Address Auto Loaded; Touch Save



13 Authentication; Enter your Panel Username and Password

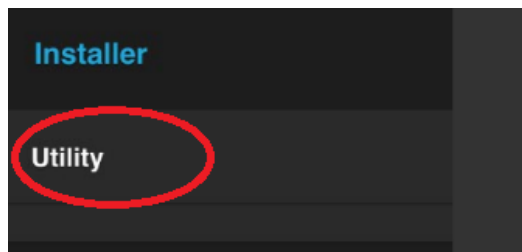


14 Open Side Menu Panel; Touch Register Notifications for MyMeridian Alarm Push Notifications

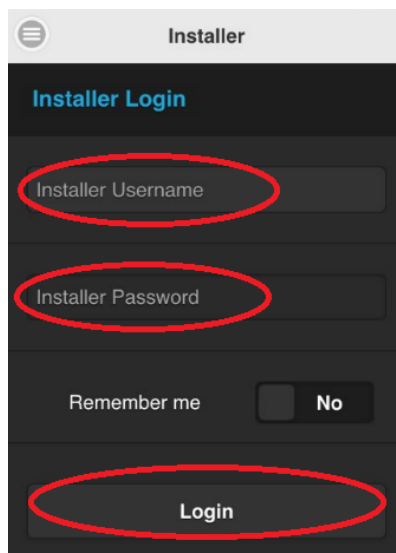


➤ Claiming a Panel on My Meridian – Installers

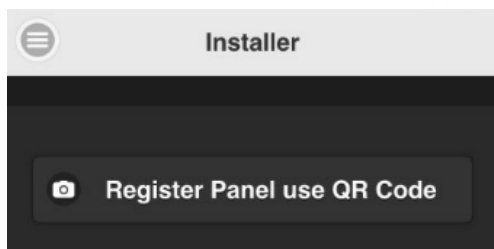
1 Touch Menu Point; Select Installer; Utility



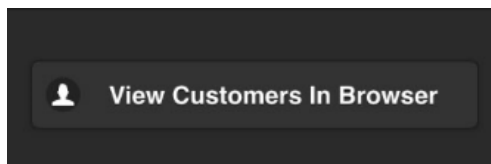
2 Enter Valid **micron Secure Installer Web Site Login** Credentials



3 Register Panel Using QR Code – Claims Panel in your Account



4 View Customers in Browser





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