

Panel Connection Guide

Using the Emizon TCD

For Sending Alarms



Satel Integra SIA over IP

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1. INTRODUCTION

This section covers the installation, configuration and use of the Emizon TCD for Upload/ Download (UDL) of intruder alarm panel data using the TCD's panel interface(s) via a remote PC using compatible UDL software over a secure connection. It will also cover specific instructions related to the particular panel.

2. BEFORE YOU START

1. Ensure that the TCD has the latest firmware by performing a firmware update. This is done in the normal way; hold the set and the mode button down for 10 seconds once the TCD is installed in the panel.
2. Commission the TCD with your Monitoring Center. Before Emizon can set the panel type the TCD must be associated and activated. This will ensure that we have access to the full diagnostic facility using paths making for a much smoother and quicker set up.
3. Place the system 'On-test' as setting up the TCD can generate alarms to the Monitoring Center.

3. CONFIGURING THE TCD

The TCD will need to have its 'Panel Type' set to the specific type of panel that you are connecting to.

This can be done by calling Emizon or by using the Emizon Online Site Diagnostic Software that you can download from <http://www.emizon.com/izone/>

4. GENERAL NOTES FOR UPLOAD/DOWNLOAD

In order to use the TCD for Upload/Download you will need to know the Emizon Installation Number. This number is the one you will use to identify the site through your remote maintenance software.

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The Emizon Installation will need to be added to your Online Maintenance Account List. This can be done by either calling Emizon and requesting it over the phone or using your Emizon Online Site Diagnostics Application to do it directly.

5. NOTES FOR SENDING ALARMS

The TCD has 16 onboard channels that can be used with most alarm panels. However, it is also equipped with several other connection interfaces. These include RS232, RS484, IP and PSTN Emulation (Dial-capture). Depending on the panel you use, you can use these additional methods of connection for sending alarms.

6. PANEL SPECIFIC INSTRUCTIONS

SATEL INTEGRA SIA OVER IP

Introduction

The Satel Integra panel equipped with the ETHM-1 Ethernet module can send DC09 format SIA over IP. The TCD listens on TCP port 18000 for incoming panel connections. Only one panel can connect to the TCD at a time. The TCD can accept AES-CBC encrypted or unencrypted connections. Encryption keys should be 128 bits in length and are configured in the TCD using your Online Maintenance application. The TCD should be set with a static IP address using either the Online Maintenance application or by MAC address reservation on the DHCP server. The installer may have to consult with the person responsible for the management of the network at the installation premises.

Panel Setup

In the following menu descriptions, the letter **N** is used to indicate that an option is switched off. In the panel menus, this is displayed as a dot. Additional settings may be required for your installation. This document covers the basic settings required to enable SIA over IP communication via the Emizon TCD.

Log on as Engineer (default 12345*) and enter **Service Mode**.

Set the panel to use the Ethernet module:

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Options

Tel. options.

Mon. TELEPHONE

Mon. ETHM-1 **Y**

Then enter the **Monitoring** menu and set the following options:

Monitoring

Mon. ETHM-1 **Y**

Stations

Station 1 only

Advanced

Source name s1 **Y**

Partit.name s1 **Y**

National Chars **N**

Station 1

IP Address (**set to the static IP address of the TCD**)

Port **18000**

UDP **N**

SIA-IP **Y**

SIA-IP acct (e.g. **1234**)

MAC **N**

Coded **Y** (see Note below)

KeyHex (Enter the key. See Note below)

SIA IP test **0d 0h 0m 30s**

Timestamp **Y**

Repetition count **3**

Note: the key should be 128 bits long. This is specified as ASCII Hex digits 0 to 9 and A to F. The string length therefore should be 32 characters long. It is recommended during initial setup to establish communication without encryption before switching encryption on. This is achieved by setting the **Coded** option above to **N**.

The TCD is pre-programmed with a default key of **12345678123456781234567812345678**. If this value is used in the panel, then the TCD does not need to be programmed with a key. It is the responsibility of the installer to choose and manage encryption keys.

TCD Setup

The TCD acts as a SIA DC09 receiver on the customer's network and so needs to be set with a static IP address using the Emizon Online Maintenance application. You

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will need an IP address, gateway and network mask from the person that oversees the network on the installation site. This should be on the same local network as the panel.

The TCD panel type should be set as **DC09**.

If you require encryption, then a key can be assigned using the Online Maintenance application. Go to Configurations -> panel settings, to assign a key. For security reasons the key cannot be retrieved from the TCD. The key should be 128 bits long. This is specified as ASCII Hex digits 0 to 9 and A to F. The string length therefore should be 32 characters.