

TS2020 WITH IEVO INSTALL GUIDE

PRODUCT INFORMATION SHEET

INF115-02

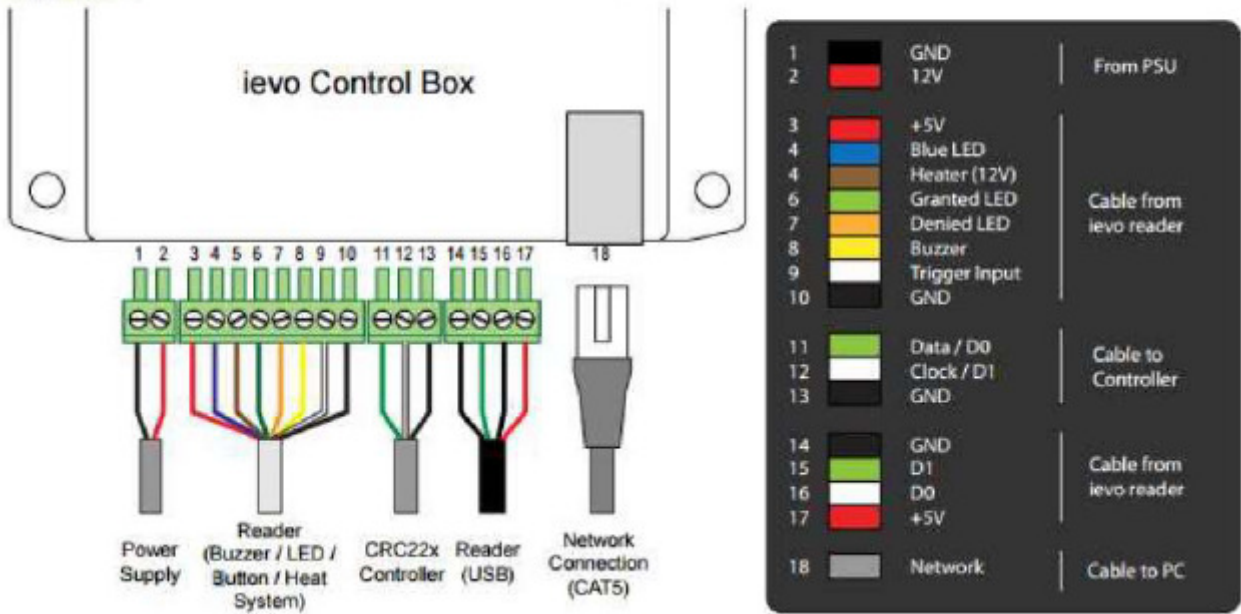
IEVO & TS2020 WIRING GUIDE

3. Wiring Information

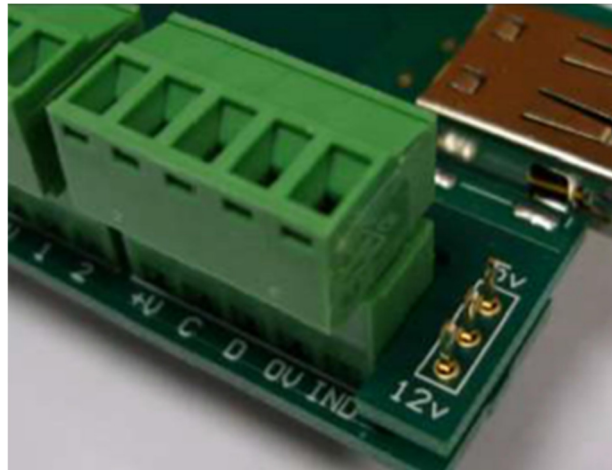
The diagrams below show cable terminations when the ievo reader is used with CRC22x controllers:



Follow ESD Safety Procedures. Ground yourself to prevent any damage to the electronic components.



Connect the ievo reader to the external reader input on the TS2020. Match up the **Data/D0** from the ievo to **D** on the terminal, **Clock/D1** from the ievo to **C** on the terminal and **GND** from the ievo to **0V** on the TS2020.



When you power on the TS2020 it will require commissioning to communicate with their software. This will involve setting the **Terminal ID** and **IP address** (by default the TS2020 is set to DHCP so should acquire network credentials automatically).

To set the Terminal ID press and hold the **C** button on the display for approx. 5 seconds to enter Diagnostic Mode (press & hold the minutes on the display for approx. 5 seconds if the TS2020 has already acquired its configuration).

From here enter Diagnostic Test number **28**, and enter the security PIN (**0825** followed by the **C** button by default). Now you will be able to access all diagnostic tests. Test **30** will allow you to set the Terminal ID. Test **37** will allow you to alter the terminals IP address and other network credentials.

PLEASE NOTE: Diagnostic Test **38** must be carried out to store the new settings and restart the terminal.

Once restarted you will need to press and hold the minutes displayed on screen for approx. 5 seconds to enter Diagnostic Mode again. Diagnostic Test **21** is where you will need to set the correct media interface/decode. From Diagnostic Test **21**, enter **2** to set the interface for the external media input, (if you have wired the reader in as reader 1 you will need to enter 1 to set the interface for media 1).

Use the up or down arrow to cycle through the interface options until you see **Wiegand**, then press **Enter**. By default, **Wiegand Generic** will be **Enabled**, change this to **Disabled** using the up or down arrow and press **Enter** to cycle through the decode options.

Ensure all are set to **Disabled** except for the one titled **ievo 34**, set this to **Enabled**. Once wired up and with a user enrolled on the ievo reader you can enter Diagnostic Test **2** on the TS2020 and swipe the user's finger. This should confirm the media is being read correctly.

INITIAL IEVO READER SETUP

The ievo standalone application is required on your laptop to set up a factory default ievo reader before putting it on the customer's network, (If the ievo reader has already been configured to the customer's settings before shipping you can skip this section).



Set your laptop/PC to an address on the **192.168.1.???** subnet, run the ievo settings application in order to give an ievo scanner with factory default settings its IP address, name, etc.... The default configuration will be shown in the displayed fields so just press **Connect**. Once connection to the ievo reader is confirmed, click on the **Settings** button to configure/check the reader configuration.

Configure the ievo reader from here to the customer's requirement (**Auto Sensor Enabled** makes the ievo constantly on so there is no need for a user to press the blue button to enable a finger scan). When configuration is complete, click on the **Update Reader** button.

The screenshot shows a 'Network Configuration' window with the following settings:

- Facility Code: 1
- IP address: 10 . 181 . 36 . 51
- Subnet mask: 255 . 255 . 255 . 0
- Default gateway: 10 . 181 . 36 . 254
- Port: 5005
- Password: 0
- MAC address: 00-50-C2-DF-CB-5E
- Host name: IEUK100_1
- LED Enabled:
- Sound Enabled:
- Auto Sensor Enabled:
- Spoof Threshold: OFF
- Output type: 34bit(8bit FC + 24bit ID)

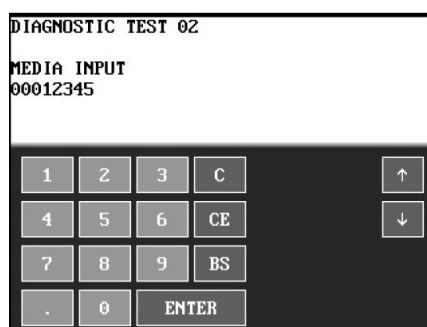
Buttons at the bottom: Refresh, Update Reader, Get time, Set time, Update Firmware.

Note: Refresh OK! (FW Version = 01.20.01_20141129)

- Facility Code** - Leave this set to 1 (even when more than one ievo reader is installed on site).
- Port** - Leave this set to 5005 (unless the customer has port 5005 in use elsewhere, unlikely!).
- Password** - Leave this set to 0.
- Output Type** - 34bit (8bit FC + 24bit ID) (When output is connected to a TS2020).

TESTING THE IEVO READER & TS2020

Once a user has been set up in the application (Evolution or ievo standalone) you should be able to select Diagnostic Test 2 on the TS2020 and swipe an enrolled finger on the ievo reader.



The Card Number will be padded with leading 0's to be a fixed length of 8 characters.