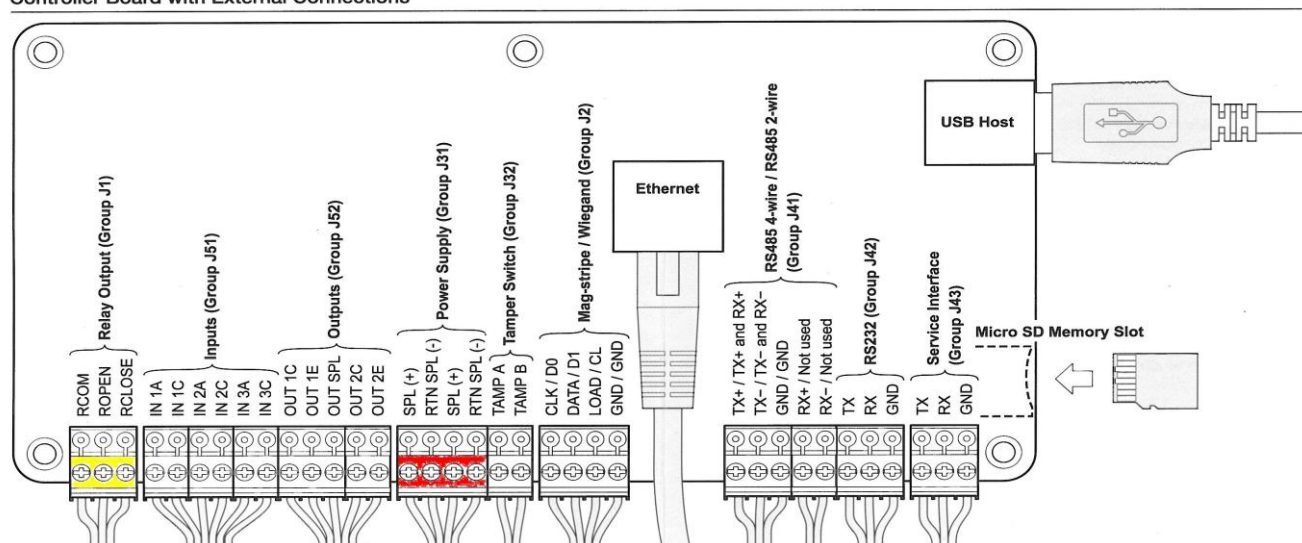# TagMaster Quick-start Guide

Purpose:

This Guide is to assist with the installation and maintenance of TagMaster Readers and Tags. It is an aide memoire and not intended as a substitute for training on this product.

- Connections required to TagMaster Reader.
- Configuring PC to use TagMaster Web Browser.
- Reader Configuration.
- Tag Placement in Vehicles.

Connections required to TagMaster Reader

The connections required for most installations are, power + and – 24V DC, (Max 30V) and 2 connections for the relay. An optional Ethernet Cable can be fitted to assist in the management of the reader.

Controller Board with External Connections

The access glands for the reader are limited to cables of up to 8mm in diameter.

The recommended method of cabling a freestanding reader is as follows:

- The Cable between the local controller may be as shown below.

Cable Length	Types for cable for most installations (these can be non-armoured in ducts
Up to 150 M	1mm 2pair 4 core or spares within existing 1mm cable
150M to 250M	1.5mm 2 pair
Above 250M	2.5mm 2 pair (total resistance in power circuit not to exceed 9 Ohms)

- The cable should be terminated in either the pole cap, pole bottom or via a waterproof box.
- The reader Ethernet cable must be a UV stable and a non-armoured cable is suitable in most cases. *See the Belden cable details below: -*
- If required, an external Ethernet cable can be run at the same time to future proof the site. RS 724-8820 is suitable (Belden 74001E.0030). This is suitable for use in fully ducted systems and must not be direct buried.
- The Relay output (coloured Yellow) use RCOM and RCLOSE
- The power connections (coloured Red) use SPL (+) to +24V and RTN SPL (-) to –VE
- If required, an Ethernet connection can be made to assist in maintenance.

Configuring PC to use TagMaster Web Browser.

To configure most Reader functions, it is necessary to use the Web Browser interface.

- A new unit with default settings.
- Plug a Patch cable into the PC and the other end into the Ethernet connection of the TagMaster reader.
- On the PC select the Start Menu and open the Control Panel
- Open Network Connections
- Click on Local Area connections, then properties.

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- Highlight Internet protocol from the dialog box and click on properties.
- In the general tab click on "Use the following IP address"
- Set the IP address to 192.168.0.10 and the Subnet mask to 255.255.255.0, click on the OK box.
- Open an internet browser such as IE7 or Firefox and in the address bar type 192.168.0.2
- This will open the TagMaster Web page, the user name is **admin** and the password is **qwerty**.
- You will now have the main menu displayed.

Reader Configuration
Wiseman Software:
The Wiseman software package allows the TagMaster reader to make decisions based on Tag number and database. If it is necessary to only allow exclusive tags to operate the reader Wiseman software must be used.

- From the main menu select Settings, then select Applications
- Select Wiseman.
- The settings will be user specific but in general these will be set as follows: -
- Search Database – ON, Relay Mode – Accepted Tags, Indicator Mode – OFF, Buzzer Mode – OFF
- Save these Settings

Add tags to Wiseman Database. (Requires JAVA see bottom of page)
- Select Wiseman Database and when the Dialog Box appears click on Run.
- When the web page opens select **Read ID Tags.**
- The Tags can then be read by the reader, once all tags required have been read click on **Add**
- The Tags will then appear on the left-hand side in the Database screen.
- The Database may be cleared, or individual tags removed.

Saving and loading Configuration to a USB memory stick
By selecting the Clone Tab, a copy of the configuration can be saved on a USB memory stick, follow the on-screen instructions. The tamper switches are the two small micro-switches above the indicator LED's in the middle of the PCB between the TRACO power module and the Ethernet Socket. The USB stick can be plugged into either of the two USB ports marked USB host in the layout as shown in the above diagram.
This Cloned Configuration can be reloaded back into the Reader without the use of a Laptop.

- Plug the memory stick, with the stored configuration, into the reader USB port.
- When the red and green LEDs come on press the tamper switches.
- When the LED's go off wait 3 seconds and remove the memory stick. The reader reboots with the new configuration and is ready to use once the reboot is complete.

Power requirement
The Reader requires a supply of 12 to 30V DC, recommended 24V DC. The average consumption is 220mA this may rise to a peak of 1A. The recommended PSU can drive a maximum of 4 units. It is recommended that where more than 2 units are connected to a single cabinet more than one power supply is used to increase reliability.

Fitting tags to Vehicles
The Tags should normally be fitted on the inside Nearside of the Vehicle Windscreen unless otherwise required i.e. the readers is fitted to an overhead Gantry. Some types of Vehicles have a metallisation of the Glass or electrically heated screens. In these cases, an area of the screen that is not coated or contains wire should be located.
When fitting Tags to Public Service Vehicles you should ensure they cannot be easily removed by members of the public. The Tags location should be considered together with the height and angle of the reader to ensure the maximum distance and angle (Tag face to Reader face being as parallel as possible) to the reader is not exceeded.

Associated Documents
Can be found on this link:. http://www.siemens.co.uk/traffic/en/index/downloads.htm

JAVA
If the database feature fails to operate it may be necessary to ensure that JAVA is up to date and configured as follows:

- From Menu Select **Control Panel** then select **Programs.** There may be more than one JAVA icon
- Click on either JAVA Icon when the JAVA control panel opens select **Security**.
- At the bottom of the page is the **Exceptions list** click on the **Edit Site List**.
- Click on the **Add** tab, the scroll to the bottom of the table.
- Click on the row with the red exclamation mark and type http:// 192.168.0.2 click the **Add** button.
- A new Dialogue box will open stating adding an HTTP location is a security risk click on **Continue.**
- Click **OK** on the Exceptions list then **OK** on the **JAVA Control Panel** which will close

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