PLEASE NOTE: Digi has stopped production of this model.

For support please contact service@ravas.com

1 Start

To make the configuration easier, supplies RAVAS for each weighing system with a WLAN device a TP-LINK router. The intention is to discard the router when the Digi module is configured successfully.

The TP-LINK router is configured by RAVAS to make automatically contact with the Digi Connect. Screenshots, settings and passwords of the TP-LINK are used in this manual.

Make sure the RAVAS scale is switched on, and close to the router.

Connect the router to a stand-alone pc. It is best to use a network cable.

Attention: Use one of the yellow 'Ethernet' ports. Do not use the blue port 'WAN'.

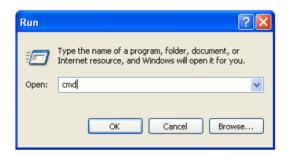
As a first step test the connection: for this you need to know the IP-address of the router. The IP-address of the TP-LINK is **192.168.0.1**

If you do not know the IP-address of the router you are using, you can find it this way:

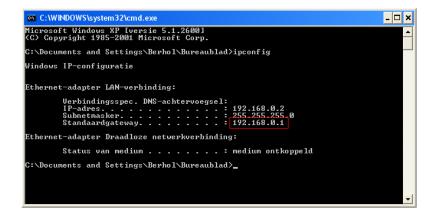
Go to 'Start > Run' on your PC:



Type cmd then click on 'OK':



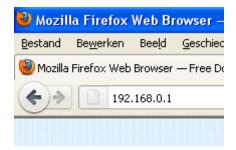
Type **ipconfig** then push enter:



The address you require is the Standardgateway. This is the IP-address of your router.

2 Find the Digi Connect module

It is recommended to use Mozilla Firefox for the configuration of the Digi module. Open your browser, and enter the IP-address of the router at the address bar:



You now enter the 'website' of the TP-LINK router:

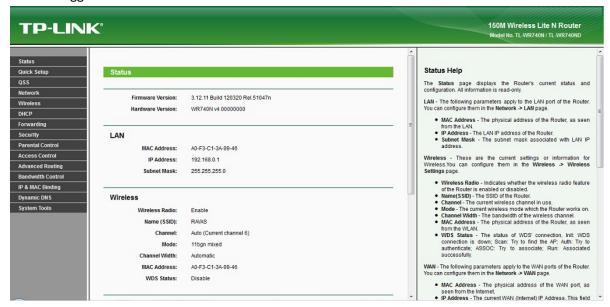


User Name : admin

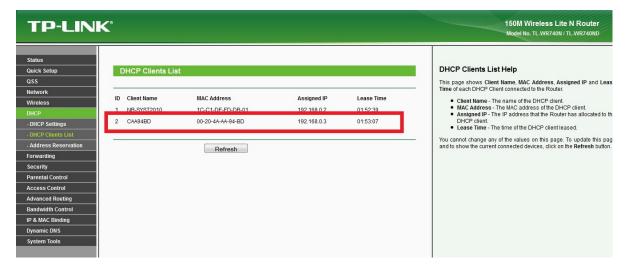
Password : admin

Click on 'OK'

You are logged in on the TP-LINK:

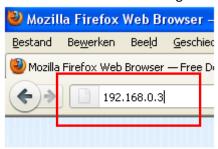


Go to 'DHCP > DHCP Client List':



A list will show the available wireless systems. An IP-address has been allotted to the Digi Connect module (see picture above). You will recognize the Digi Connect by the MAC Address, which is visible on the housing of the RAVAS unit. (Also shown on a white label on the back of the Digi Connect device itself)

Enter the IP-address of the Digi Connect in the browser address bar:



This will bring you to the 'website' of the Digi Connect: you are connected!



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Username : root
Password : dbps

You can log in.

You now are able to configure the Digi Connect to the settings required for your company. RAVAS advises these actions to be made by your network administrator.

Notes:

- * To save the configuration you need to save the settings of each page separately. The Digi Connect module must reboot to apply the settings.
- * When there is a bad WLAN connection please make sure that multiple routers are not interfering with each other because they are using the same channel number. It is preferable to use channel numbers 1-6-11 they don't overlap with other channels.
- * Once the Digi Connect module is configured to your settings, you can discard the TP-Link router. The router was only provided for the configuration of the Digi Connect module.

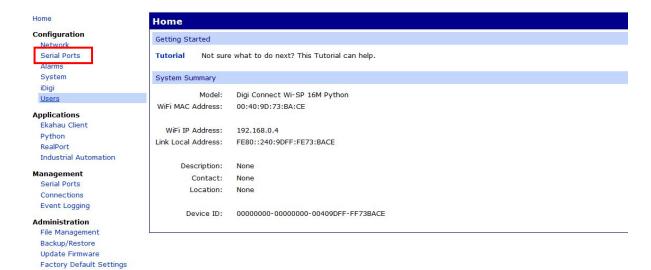
3 Configuring the Digi Connect module

RAVAS has already configured the Digi Connect as described below.

Choose 'Serial Ports':



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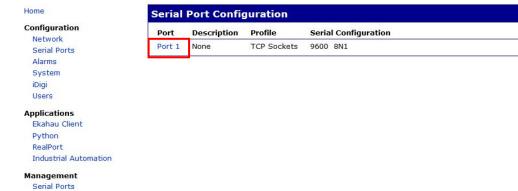


Click on 'Port 1':

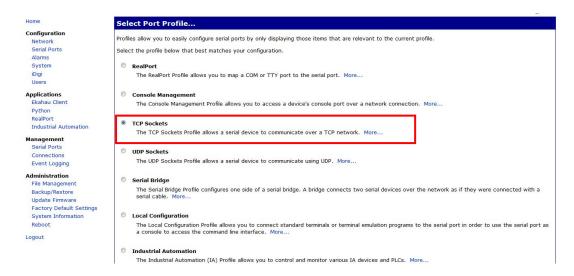
Connections
Event Logging



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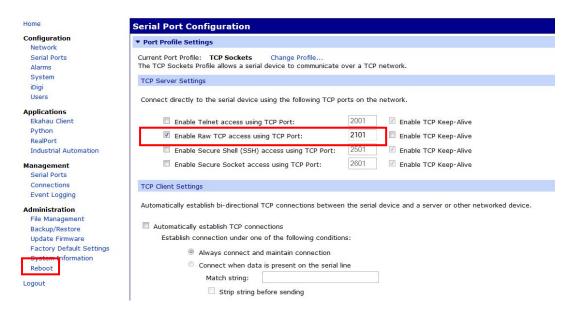


Check the 'TCP Sockets' box:



Press 'Apply' at the bottom of the page.

The following page pops up:



Check 'Enable Raw TCP access using TCP Port 2101'.

Press 'Apply' at the bottom of the page, then 'Reboot' on the left.

Click on 'Reboot' in this window.



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The Digi Connect will reboot. This will take approximately 1 minute.

If the Digi does not reconnect automatically, press 'click here':



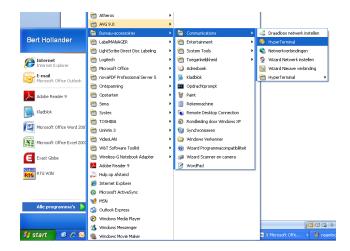
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4 To check the data transfer

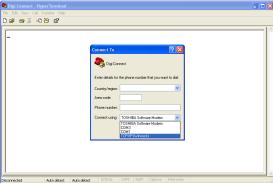
Start Hyper Terminal. This program is installed by default on Windows XP or lower.



Enter a name, press OK:



Select 'TCP/IP (Winsock)':

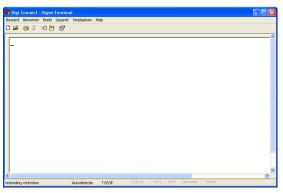


At 'Host address' enter the IP address of the

Digi Connect. 'Port number' is 2101:



Press OK and a blank screen will appear:



The RAVAS indicator should have the PC bi-directional command structure active.

The datatransfer protocol must be identical for both the PC and the RAVAS indicator:

Baudrate: 600 to 19200 (RAVAS default = 9600)

Databits: 7 or 8 (RAVAS default = 8)

Stopbits: 1 or 2 (RAVAS default = 1)

Parity: odd/even/none (RAVAS default = none)

Handshake: none

Depending on which indicator you are using, you can use most of the following commands on the PC to show the weight read out on the Hyper Terminal screen.

ASCII commands*2

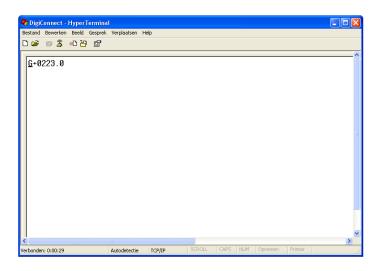
ASCII command	Response string	Operation
SZ <cr></cr>	OK <cr>/ERR<cr></cr></cr>	Set zero value
RZ <cr></cr>	OK <cr>/ERR<cr></cr></cr>	Reset zero value
S1 <value><cr></cr></value>	OK <cr>/ERR<cr></cr></cr>	Set setpoint 1 value
S2 <value><cr></cr></value>	OK <cr>/ERR<cr></cr></cr>	Set setpoint 2 value
SP <value><cr>*1</cr></value>	OK <cr>/ERR<cr></cr></cr>	Set preset tare value
ST <cr></cr>	OK <cr>/ERR<cr></cr></cr>	Set tare
SG <cr></cr>	G+0001.0 <cr></cr>	Send gross mode (continuously)
SN <cr></cr>	N+0001.0 <cr></cr>	Send net mode (continuously)
SW <cr></cr>	W+00010+000103805 <cr></cr>	Send weights mode (continuously)
RT <cr></cr>	OK <cr>/ERR<cr></cr></cr>	Reset tare
RP <cr></cr>	OK <cr>/ERR<cr></cr></cr>	Reset preset tare
G1 <cr></cr>	1+0001.0 <cr></cr>	Get setpoint 1 level
G2 <cr></cr>	2+0001.0 <cr></cr>	Get setpoint 2 level

GP <cr></cr>	P+0001.0 <cr></cr>	Get preset tare
GT <cr></cr>	T+0001.0 <cr></cr>	Get tare
GG <cr></cr>	G+0001.0 <cr></cr>	Get gross
GN <cr></cr>	N+0001.0 <cr></cr>	Get net
GW <cr></cr>	W+00010+000103805 <cr></cr>	Get net, gross, status and checksum
MN <cr></cr>	N+0001.0 <cr></cr>	Get net, wait for no motion
MG <cr></cr>	G+0001.0 <cr></cr>	Get gross, wait for no motion
AN <cr></cr>	N+0001.0;0001 <cr></cr>	Get net and alibi nr., wait for no motion
AG <cr></cr>	G+0001.0;0001 <cr></cr>	Get gross and alibi nr., wait for no motion

^{*1:} If the scale is working in ranges with a number after the decimal point, the preset tare value should be given in accordingly. If the scale is working in ranges equal to or higher than 1 kg/lb, then the value should be entered with the decimal point at the end of the value.

E.g. ranges 0.1/0.2/0.5 >> SP0001.5<CR>, ranges 1/2/5/10/20/50 >> SP00150.<CR>

*2: If the scale is busy with a handling, like zeroing or taring, and a command is generated at the same time it will reply with the remark "BUSY" to the host.



The weight read out on Hyper Terminal, using the command GG<CR>