

FULL-DOOR LIGATURE ALARM

IT DEMO KIT TROUBLESHOOTING

When connected to the internet, the room which is assigned to the receiver demo kit should appear as yellow/test required on the Door Alarm dashboard:

UK IT Demo Overview

Ward	Down (new)	V.Low Battery	Low Battery	Test Required	Active	NoData	Alarms
UK IT Demo 1	0	0	0	1	0	0	0

If it is brown/no data, this means that the data is not being received by the dashboard.

UK IT Demo Overview

Ward	Down (new)	V.Low Battery	Low Battery	Test Required	Active	NoData	Alarms
UK IT Demo 2	0	0	0	0	0	1	0

The demo kit features some troubleshooting features to assist in configuring the firewall to allow the data to reach the dashboard:

1. Displaying IP
2. Displaying MAC address
3. Ping
4. Traceroute

Use these tools and adjust the firewall configuration until the room appears as yellow/test required on the Door Alarm dashboard, meaning the data is being received by the dashboard.

SOFTWARE SETUP

To access these features download TeraTerm (<https://github.com/TeraTermProject/osdn-download/releases>) and configure the software, using a USB-B cable to plug into the front of the receiver unit.

Step 1

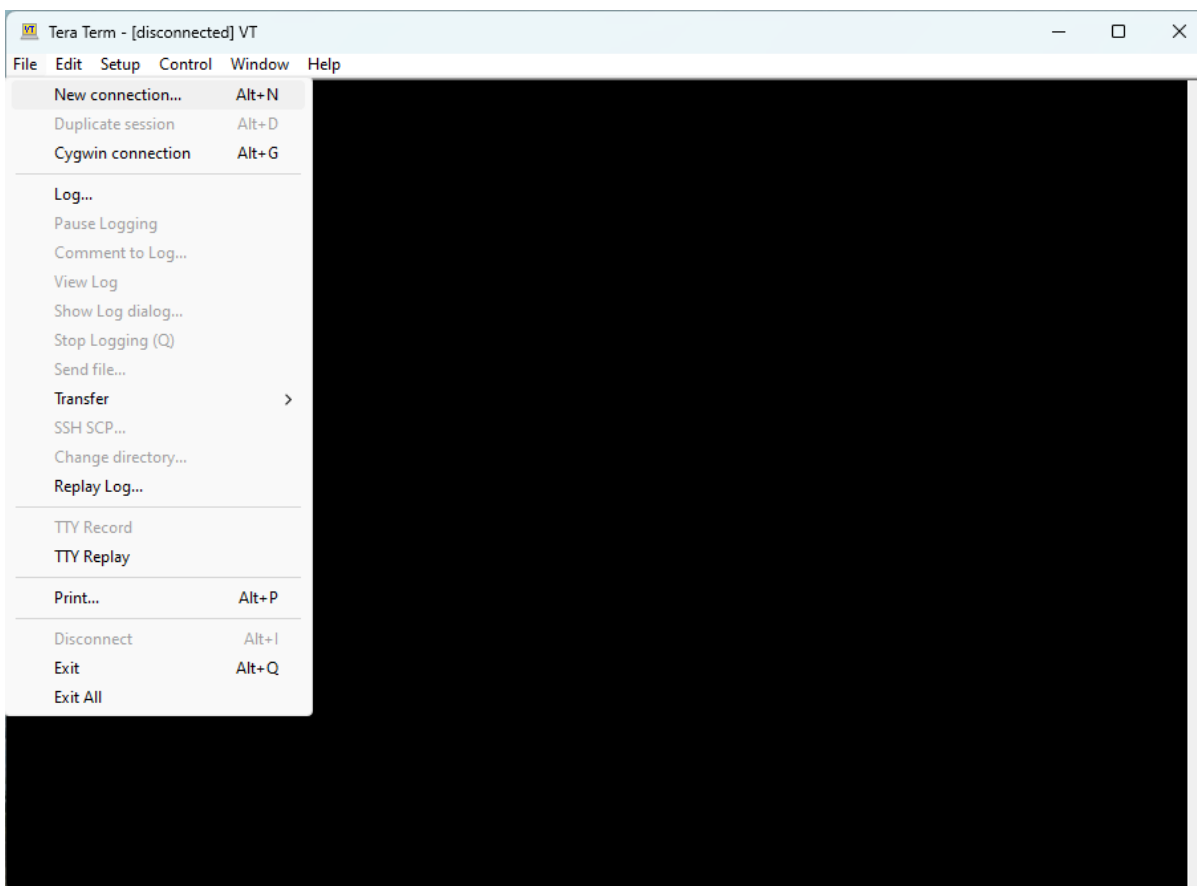
Ensure the Receiver is powered up.

Step 2

Connect the Receiver to the computer using the USB-B cable.

Step 3

Open Teraterm, click file, New connection:

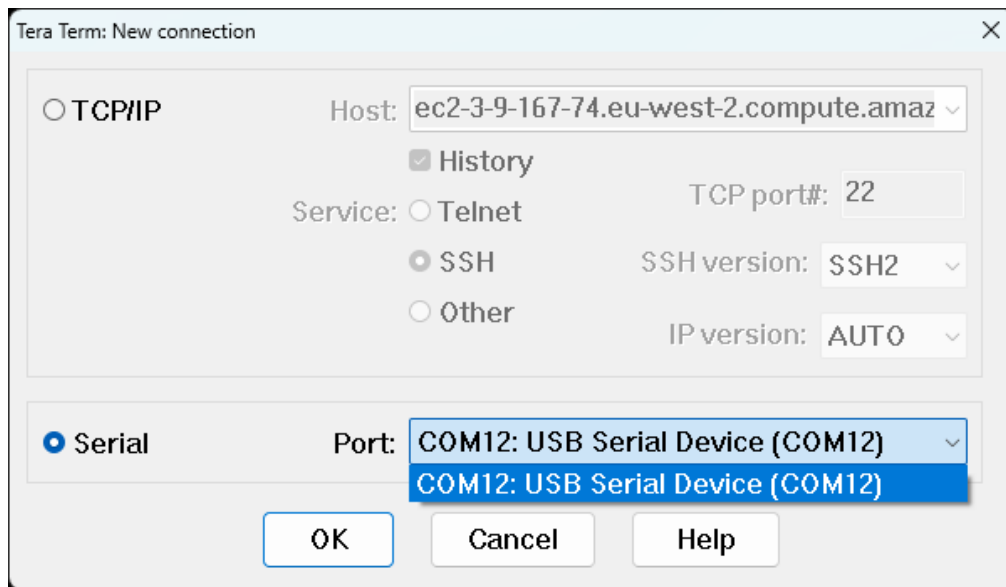


Step 4

Select 'serial' radio button

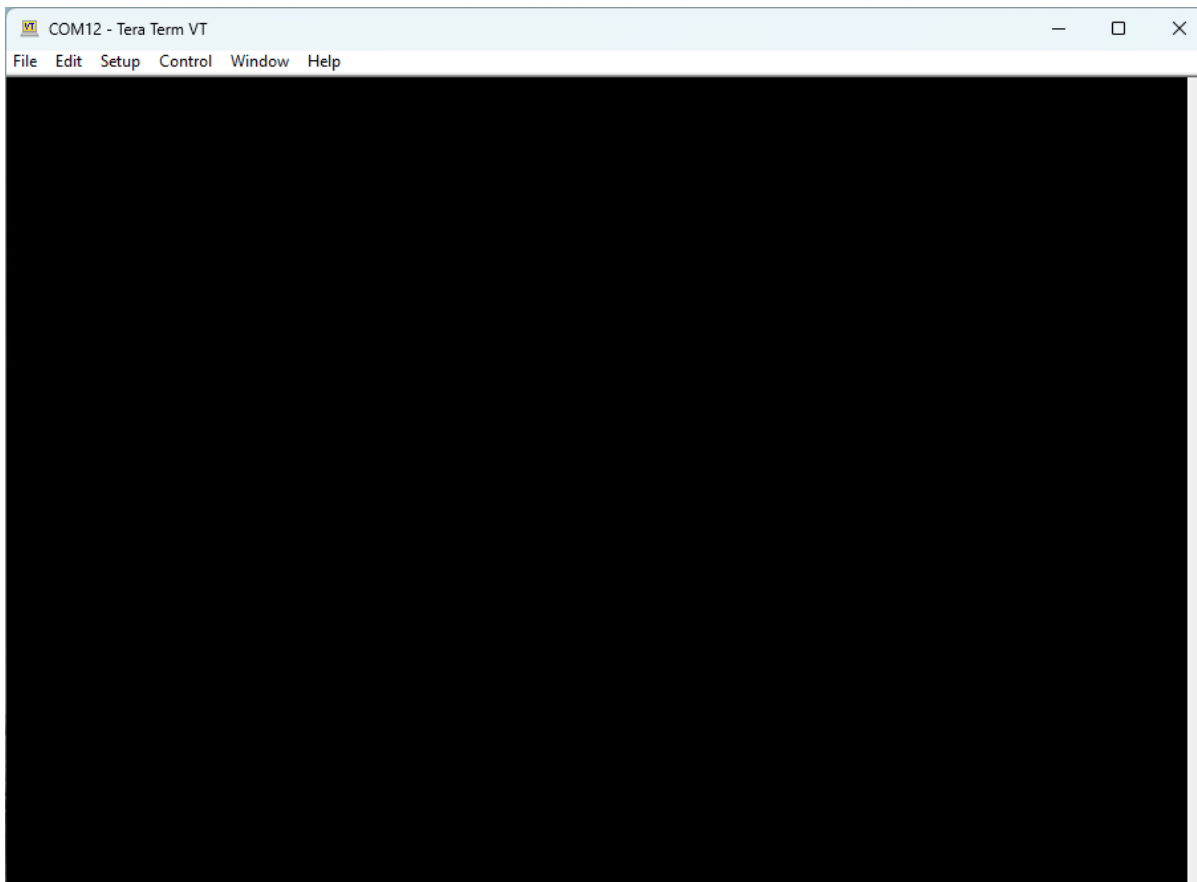
Choose correct COM port from the dropdown list

Click 'OK'.



Step 5

Connection is now open.



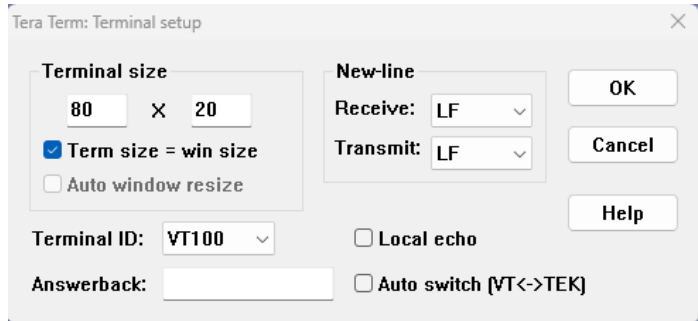
If you disconnect and reconnect it should detect this automatically

If not, repeat the steps above.

INITIAL TERMINAL SETUP

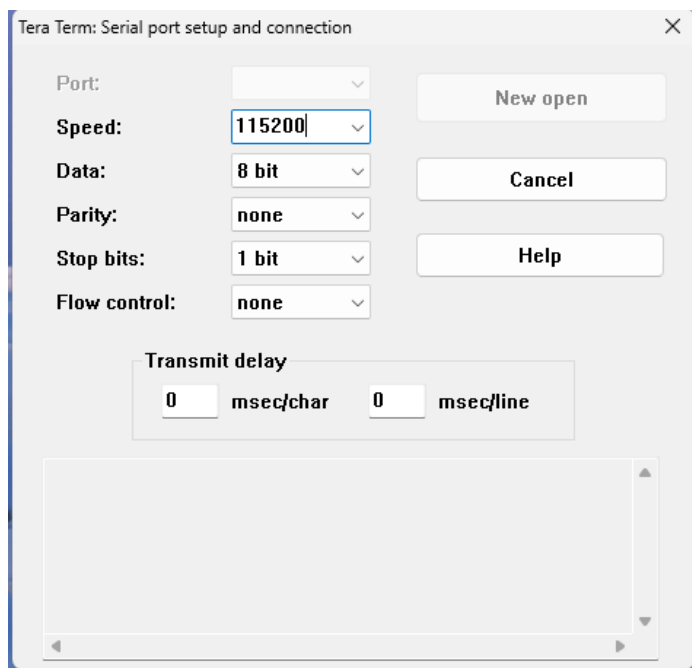
Setup New Line Character

Setup > Terminal > Receive=LF, Transmit=LF



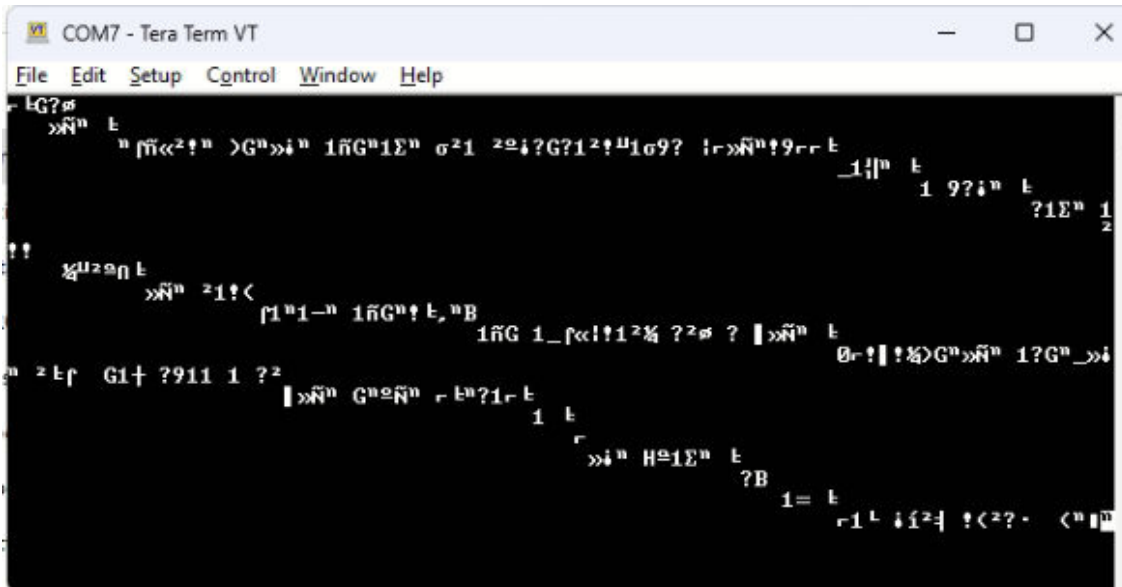
Setup Serial Port Speed / Baud Rate

Setup > Serial Port > Serial Speed 115200



EXAMPLES OF MISCONFIGURED TERMINAL

Misconfigured baud rate and newline character



RECEIVER CLI / TROUBLESHOOTING

Launches into a restricted linux shell.
 From here you can run the following commands.

Dashboard View

'dashboard'

Here you can see the dashboard overview

```
File Edit Setup Control Window Help
# dashboard
```

Information contained in this is the IP address and MAC address.

Receiver Properties						
Radio Add.:	40:2e:71:8f:70:14					
IP Add.:	192.168.1.132					
MAC Add.:	40:2e:71:8f:70:14					
F/W Version:	v0.19.7-17-gc97d0804					

Node Properties						
Relay	F/W Ver.	Radio Address	Batt.	Heartbeat	RSSI N-R	RSSI R-N
R1	v0.19.7-17-	80:34:28:1c:da:d4	175	14:25:0120	-64	-64
R2	v0.19.7-17-	80:34:28:1c:85:9b	139	14:25:16	-71	-75
R3	v0.19.7-17-	80:34:28:1c:b9:01	159	14:24:5:1	-38 8	-36
R4	v0.19.7-17-	80:34:28:1c:bc:77	163	14:25:022	-36 7	-38
1 R5	9 v0.19.7-17-	80:34:28:1c:97:75	167	14:25:07	-44	-44

Press 'q' to exit.

Network Analysis Tools

Ping

```
# ping -c 5 google.com
PING google.com (142.250.200.14): 56 data bytes
64 bytes from 142.250.200.14: seq=0 ttl=112 time=12.848 ms
64 bytes from 142.250.200.14: seq=1 ttl=112 time=12.855 ms
64 bytes from 142.250.200.14: seq=2 ttl=112 time=12.839 ms
64 bytes from 142.250.200.14: seq=3 ttl=112 time=12.946 ms
64 bytes from 142.250.200.14: seq=4 ttl=112 time=12.815 ms

--- google.com ping statistics ---
5 packets transmitted, 5 packets received, 0% packet loss
round-trip min/avg/max = 12.815/12.860/12.946 ms
```

Traceroute

```
# traceroute google.com
traceroute to google.com (142.250.200.14), 30 hops max, 38 byte packets
 1  unifi (192.168.1.1)  0.497 ms  0.408 ms  0.361 ms
 2  141.0.155.161.bcube.co.uk (141.0.155.161)  7.333 ms  5.756 ms  4.040 ms
 3  172.16.26.44 (172.16.26.44)  1.310 ms  1.196 ms  1.013 ms
 4  * * *
 5  * * *
 6  * * *
 7  * * *
 8  * * *
 9  * * *
10  * * *
11  * * *
12  * * *
13  * * *
```