
Ethernet Addendum

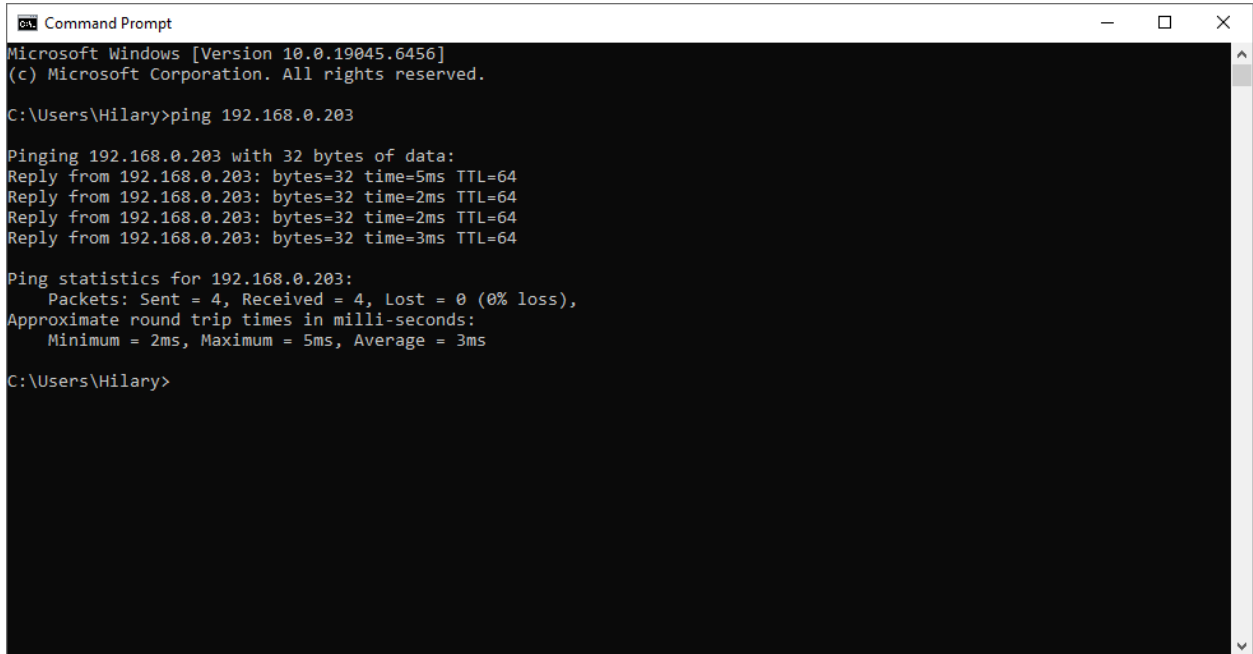
Gauges equipped with an Ethernet port can use Telnet to transmit their vacuum readings across your network. The port is assigned an IP which, when accessed, will print the readings to a terminal program.

This is presently the only communication protocol that is compatible with the Ethernet option. The legacy DigiVac applet has been discontinued. All major web browsers have dropped support for Java applets due to security risks, and Java is no longer compatible with modern web standards.

Putty is a popular free terminal emulator software. You can download it at www.putty.org

Plug the ethernet port of your vacuum gauge into a switch or router so it is connected to the same network as the laptop or PC you're using to read it.

You can start by pinging the IP address with Command Prompt first to ensure your connection is good. Check the bottom of the gauge for a sticker with the IP and MAC ID. Go to the start menu, open Command Prompt, and type "**ping 192.168.0.XXX**". You should receive 4 echo responses with the bytes transmitted.



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Microsoft Windows [Version 10.0.19045.6456]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Hilary>ping 192.168.0.203

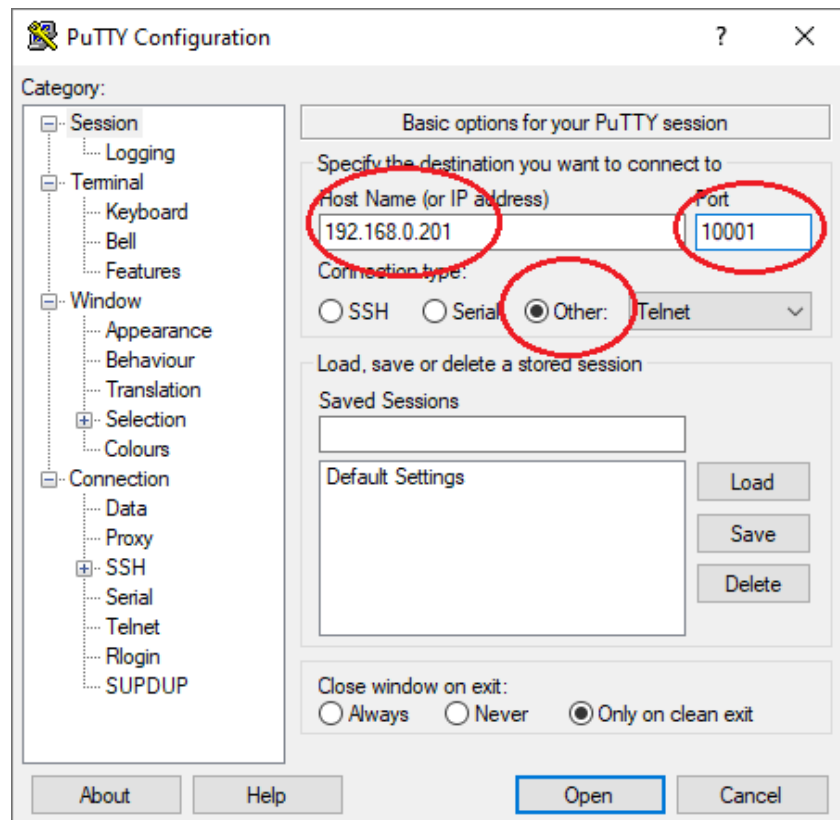
Pinging 192.168.0.203 with 32 bytes of data:
Reply from 192.168.0.203: bytes=32 time=5ms TTL=64
Reply from 192.168.0.203: bytes=32 time=2ms TTL=64
Reply from 192.168.0.203: bytes=32 time=2ms TTL=64
Reply from 192.168.0.203: bytes=32 time=3ms TTL=64

Ping statistics for 192.168.0.203:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 2ms, Maximum = 5ms, Average = 3ms

C:\Users\Hilary>
```

If the destination host is unreachable or the network connection is refused, see the [Troubleshooting section](#).

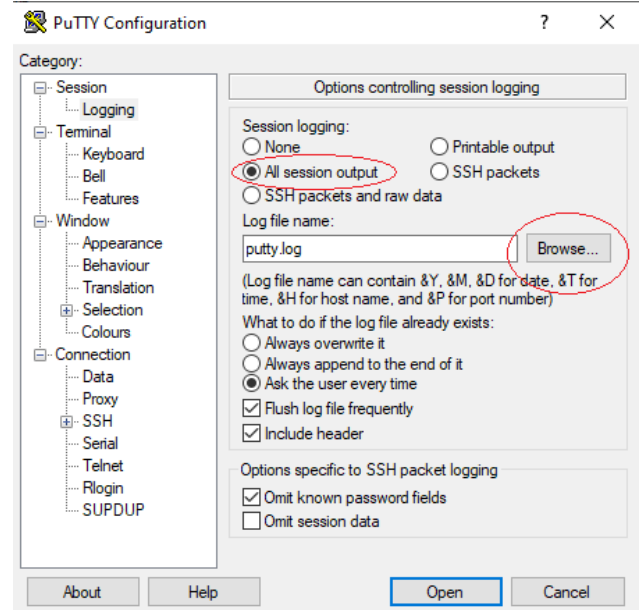
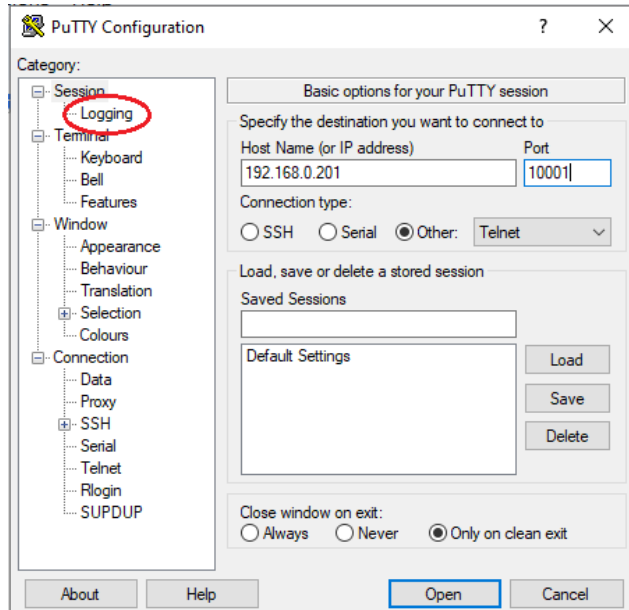
Launch Putty. You will see this window below. Change Connection Type to **Telnet**, change the **IP address** to match the one assigned to your gauge (which will differ from this document), and change the port to **10001**.



If you want to log your vacuum readings, continue the logging instructions. Otherwise you can skip ahead to [Reading Vacuum Data](#).

Logging

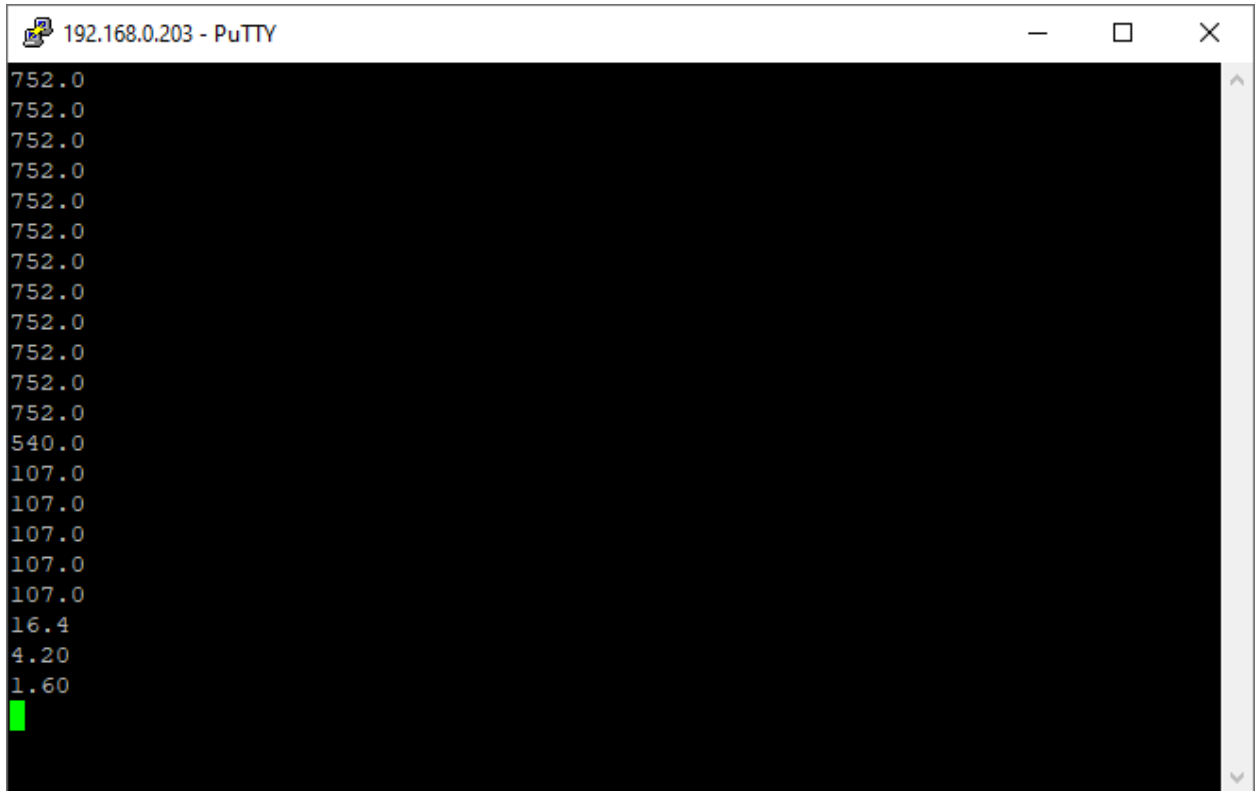
On the left side of the menu, click “**Logging**”.



Then click “**All Session Output**”. You can change the log file name as you wish and click “**Browse**” to select the save location. You may want to assign date codes to the file. If you use the name of a previous log file, Putty will try to append to or overwrite that file.

Reading Vacuum Data

When you're ready to start reading and/or logging, click "**Open**". You will see the data lines populate on the screen once per second. There is no option to change the timing, and the gauge cannot receive queries or commands.



A screenshot of a PuTTY terminal window titled "192.168.0.203 - PuTTY". The window displays a list of vacuum data readings on a black background with white text. The readings are as follows:

Reading
752.0
752.0
752.0
752.0
752.0
752.0
752.0
752.0
752.0
752.0
752.0
540.0
107.0
107.0
107.0
107.0
107.0
16.4
4.20
1.60

A green cursor is visible on the line following the last reading.

When you are finished, close Putty. If you are logging the vacuum data, the log file will automatically save where you assigned it. The native file form is a Notepad file.

You can also export this file into Excel. Right click on the file, go to Open With, and follow the prompts to open with Excel.

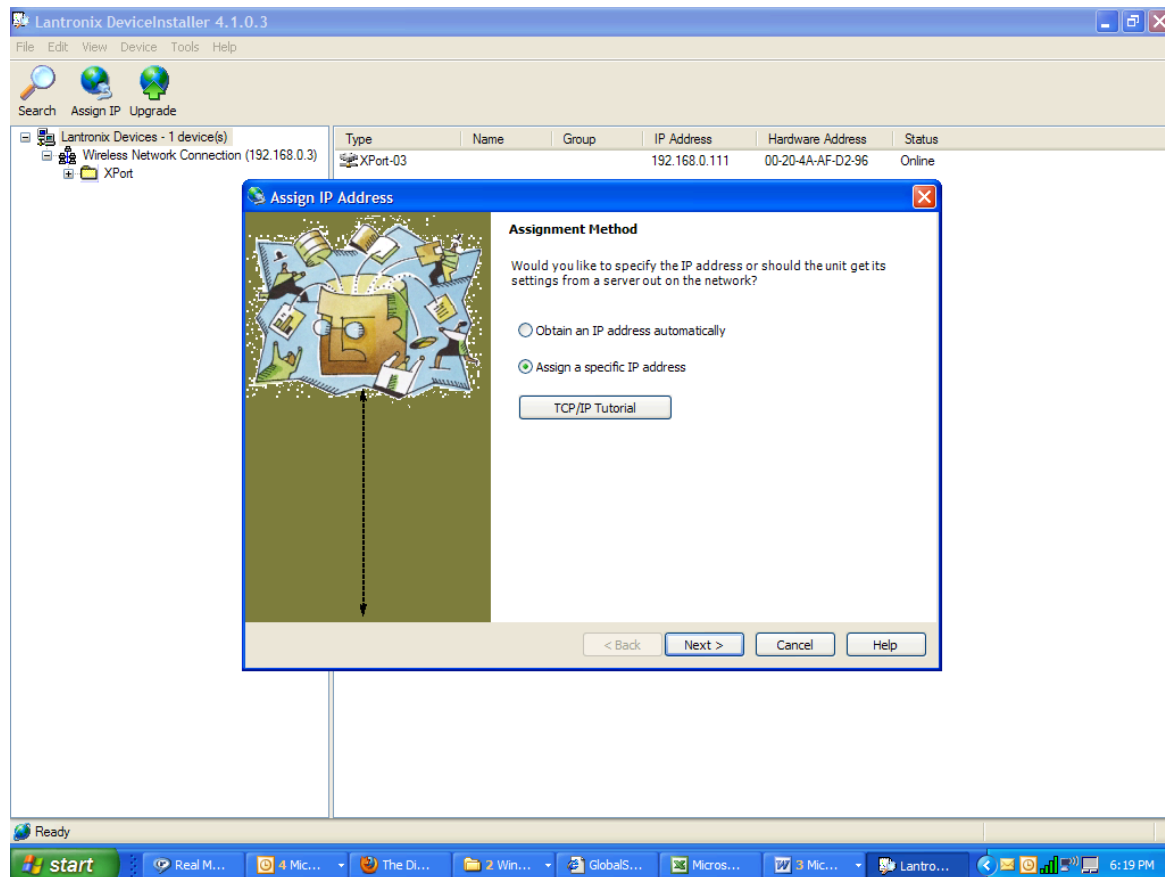
Troubleshooting

If you can't ping the IP with Command Prompt, check that:

- The gauge is powered on
- Your internet connection is working
- Your switch or router is getting power
- The ends and length of the cable are not frayed or broken
- You've typed in the correct IP address and port, and selected Telnet

If none of these solve the issue, it's possible the IP sticker on the bottom is incorrect, or the IP was already changed by your organization to something that will work on your network.

You can use Lantronix DeviceInstaller (free) to determine the IP addresses and MAC IDs of the devices on your network. The device will appear as **"Xport"**.



You can also use Lantronix DeviceInstaller to change the baud rate or IP if needed.

If the device appears, but under a different IP (the MAC IDs will still match), you can reassign the IP or merely update the sticker.

If no device is found and all other potential issues have been eliminated, the Ethernet port itself may be damaged. Please contact DigiVac for technical support.

If you can successfully ping the IP with Command Prompt, but get no data when launching Putty, double-check the IP, port (**10001**) and connection type (**Telnet**).

If none of these produce results, contact your IT department. Unknown devices may be blocked on your network, or require a specifically configured IP.