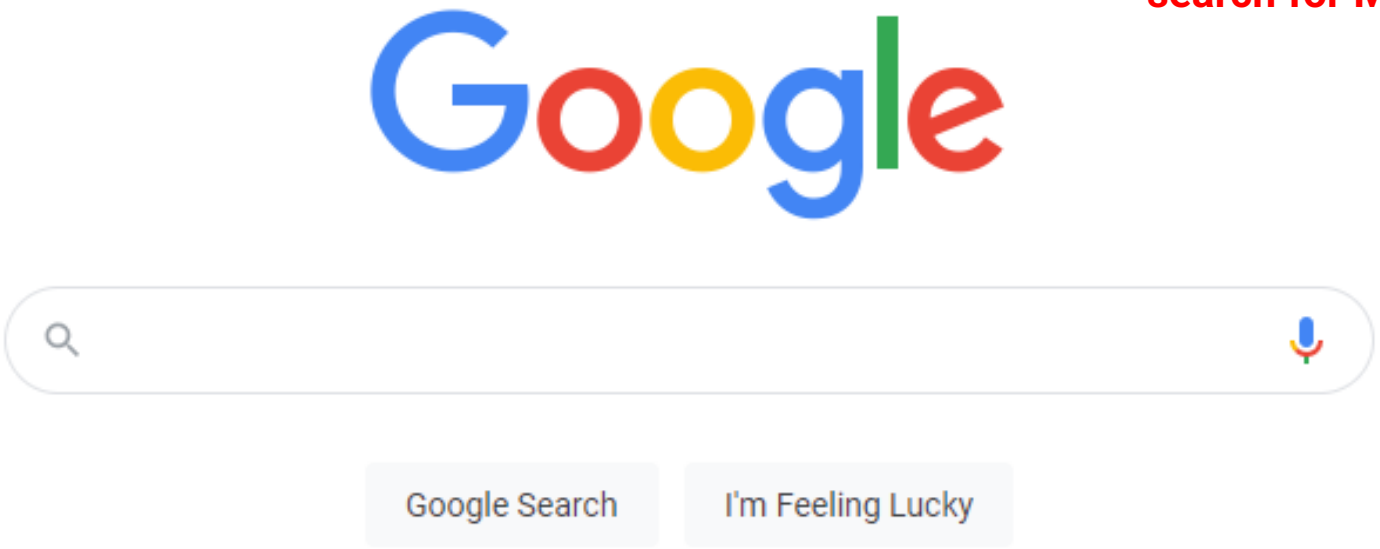
Measurlogic DTS RS-485 Meters

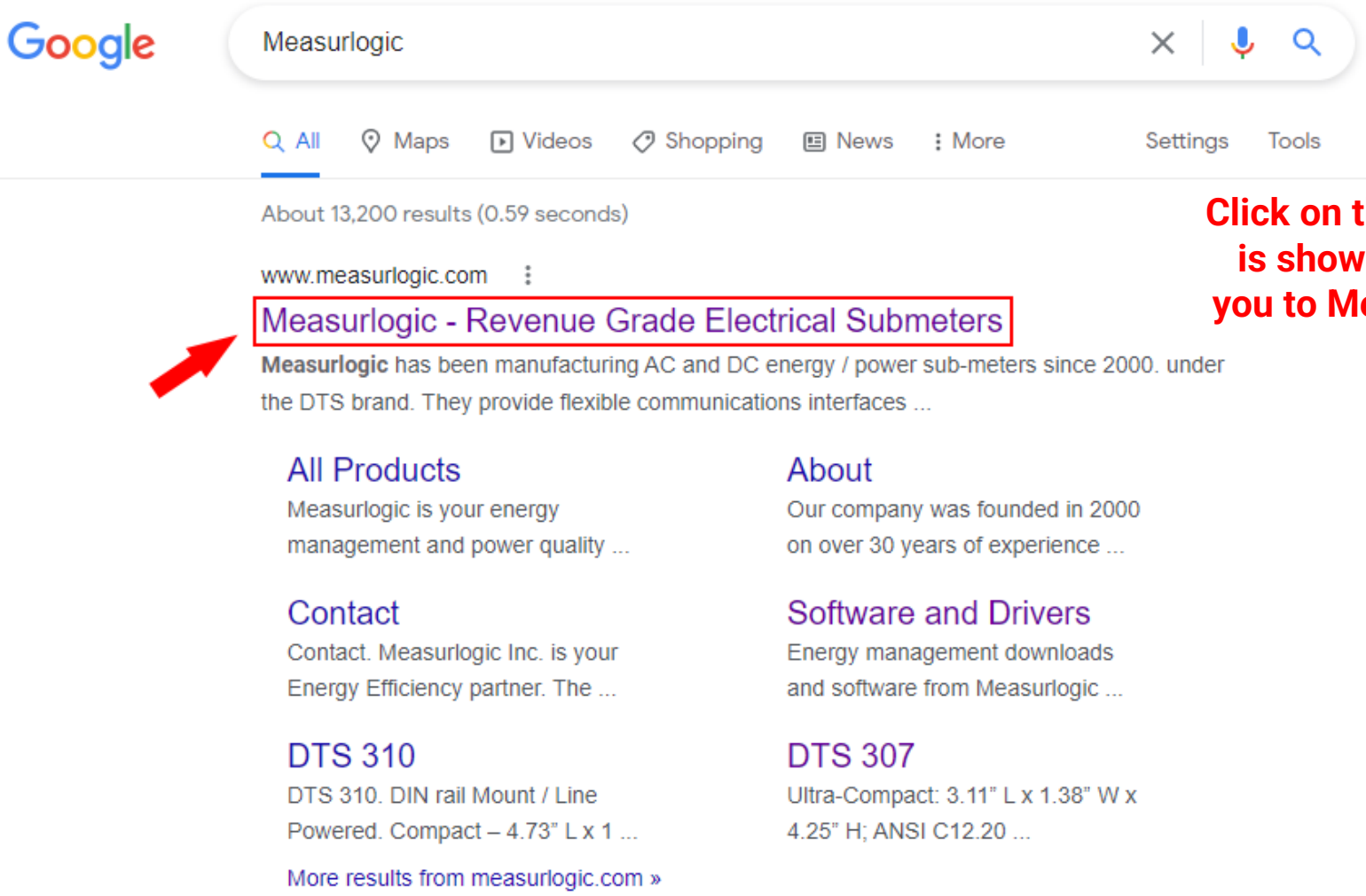
Setting up your RS-485 Measurlogic DTS Meter using DTS Config

Download Required Files

To download the DTS Config software and its required drivers. Open your web browser of choice and search for Measurlogic.



Download Required Files



Click on the first link that is shown. This will take you to Measurlogic.com.

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MEASURLOGIC

ELECTRIC SUBMETERS CURRENT SENSORS DEMAND CONTROL POWER CONDITIONING SOFTWARE

INCREASE EFFICIENCY WITH THE DTS 310

Line Powered

Four Quadrant NET Meter

Revenue Grade

Flexible Communication

On the Measurlogic.com website click the "software" button.

Download Required Files

ELECTRIC SUBMETERS | CURRENT SENSORS | DEMAND CONTROL | POWER CONDITIONING | SOFTWARE

SOFTWARE / DRIVERS

Access the software downloads below to get started with your Measurlogic electrical metering products. Still have questions? Contact us today.

DTS CONFIG (MODBUS 485/TCP BASED)

DTS Config is a **Modbus Master software application** for easy configuration and monitoring of the following DTS AC and DC submeters and peripherals. For DTS meters with **BACnet MS/TP or IP** interfaces see BACnet Explorers below.

DTS 305 – v1.10 and up
DTS 307 – any firmware release
DTS 310 – any firmware release
DTS SMX – any firmware release
DTS SKT/D – any firmware release
DTS DC – any firmware release
DTS 105 – any firmware release
DTS Display – v2.11 and up
DTS 300 – NOT compatible

On the software page scroll down until you find a "Download DTS Config" button and click on it. This will download DTS Config to your computers filing system.

DOWNLOAD DTS CONFIG (1.9 Mb) [ZIP] — Current Version 1.45.0.288

Windows XP SP3 (32 bit) and 7, 8 or 10 (32 or 64 bit) Requires .NET 4.0 or later
Extract the installation files from the zip file to a folder before running the setup
Recommendation: Uninstall all previous versions before install.

DTS TOOLBOX (USE WITH DTS SUBMETERS WITH EMBEDDED ETHERNET PORT)

Download Required Files

Windows XP SP3 (32 bit) and 7, 8 or 10 (32 or 64 bit) Requires .NET 4.0 or later
Extract the installation files from the zip file to a folder before running the setup
Recommendation: Uninstall all previous versions before install.

DTS SECURE TOOLBOX (USE WITH DTS IOT GATEWAYS)

The DTS Secure Toolbox utility can detect and connect to the DTS IoT Gateways (wired / wireless OR 4G cell modem versions)

DTS IoT Gateways

DOWNLOAD DTS SECURE TOOLBOX (10.9 Mb) [ZIP] — Current Version 1.08aE

On the same page scroll down to the bottom until you find a "CCOM-0017 Drivers" button. This will download the required drivers to your computers filing system.

BACNET EXPLORERS

The following 3rd party BACnet Explorers have been used successfully with the DTS family of AC and DC BACnet MS/TP and BACnet/IP sub-meters. These links are for your convenience. Measurlogic does not offer technical support for these products.

- YABE (Yet Another BACnet Explorer)

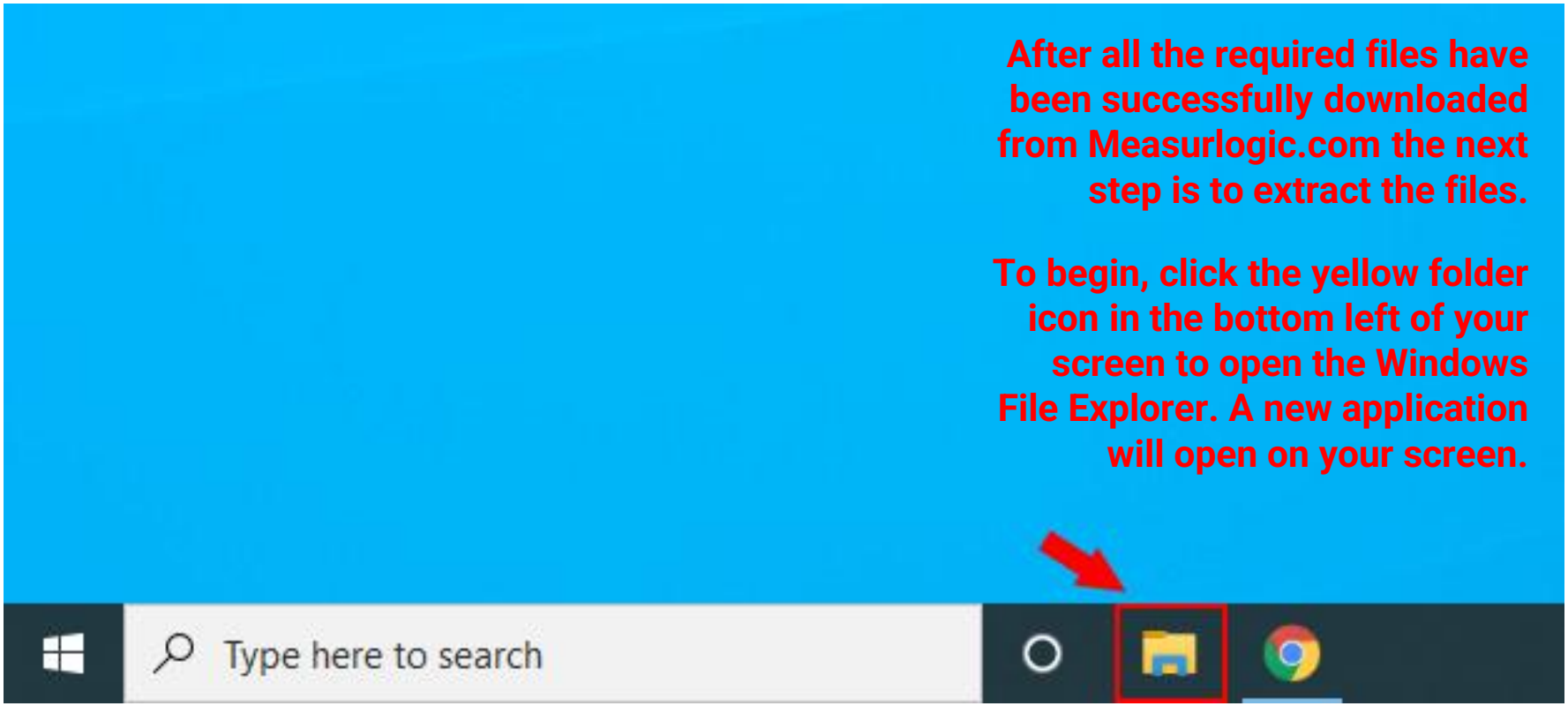
WINDOWS DRIVERS (USB TO RS-485 CONVERTERS)

Current:
CCOM-0017 Drivers (1.6 Mb) [ZIP]

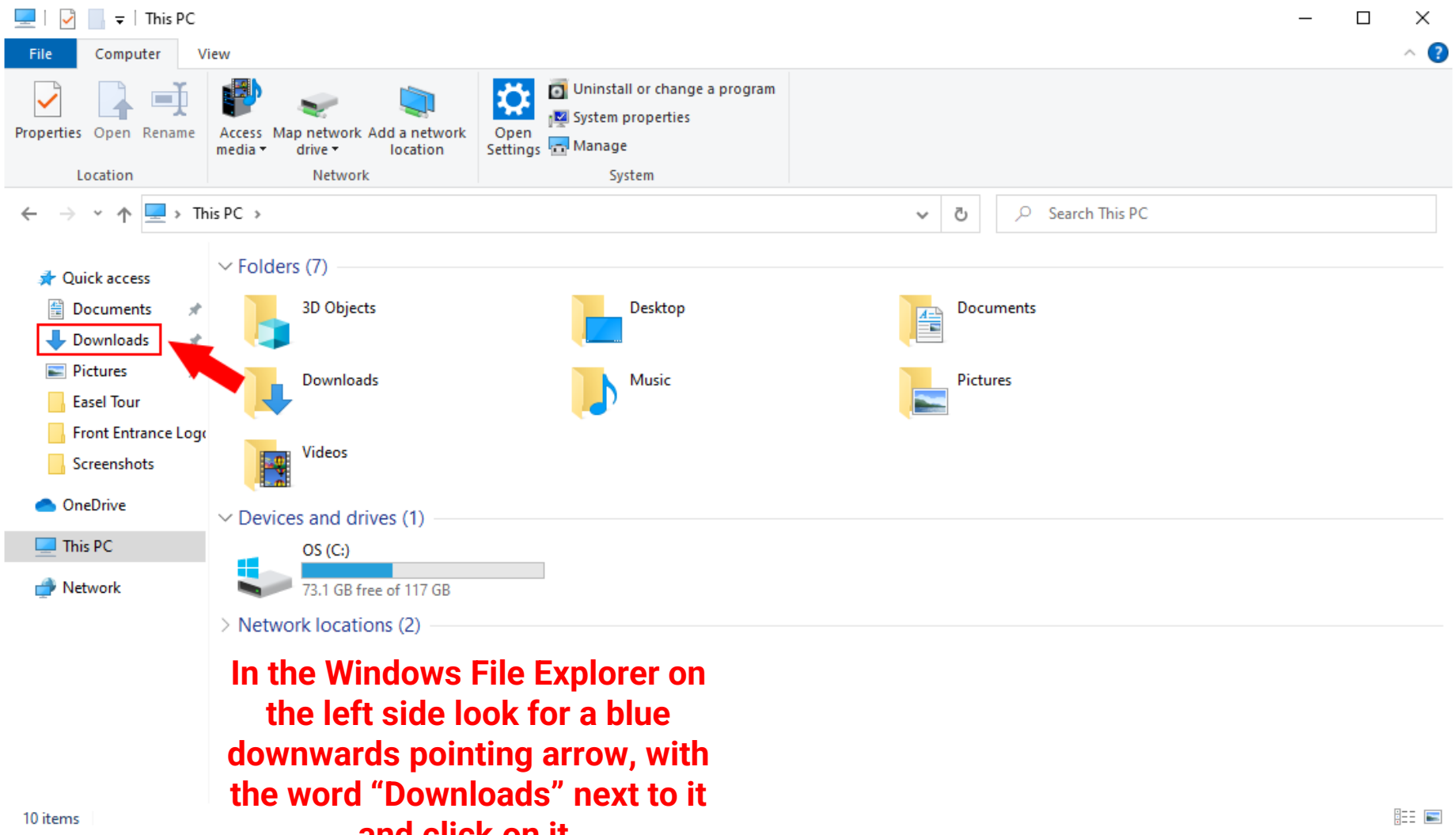
These drivers are suitable for the following windows operating systems:

- Up to Windows 10 (32/64)

Installing DTS Config

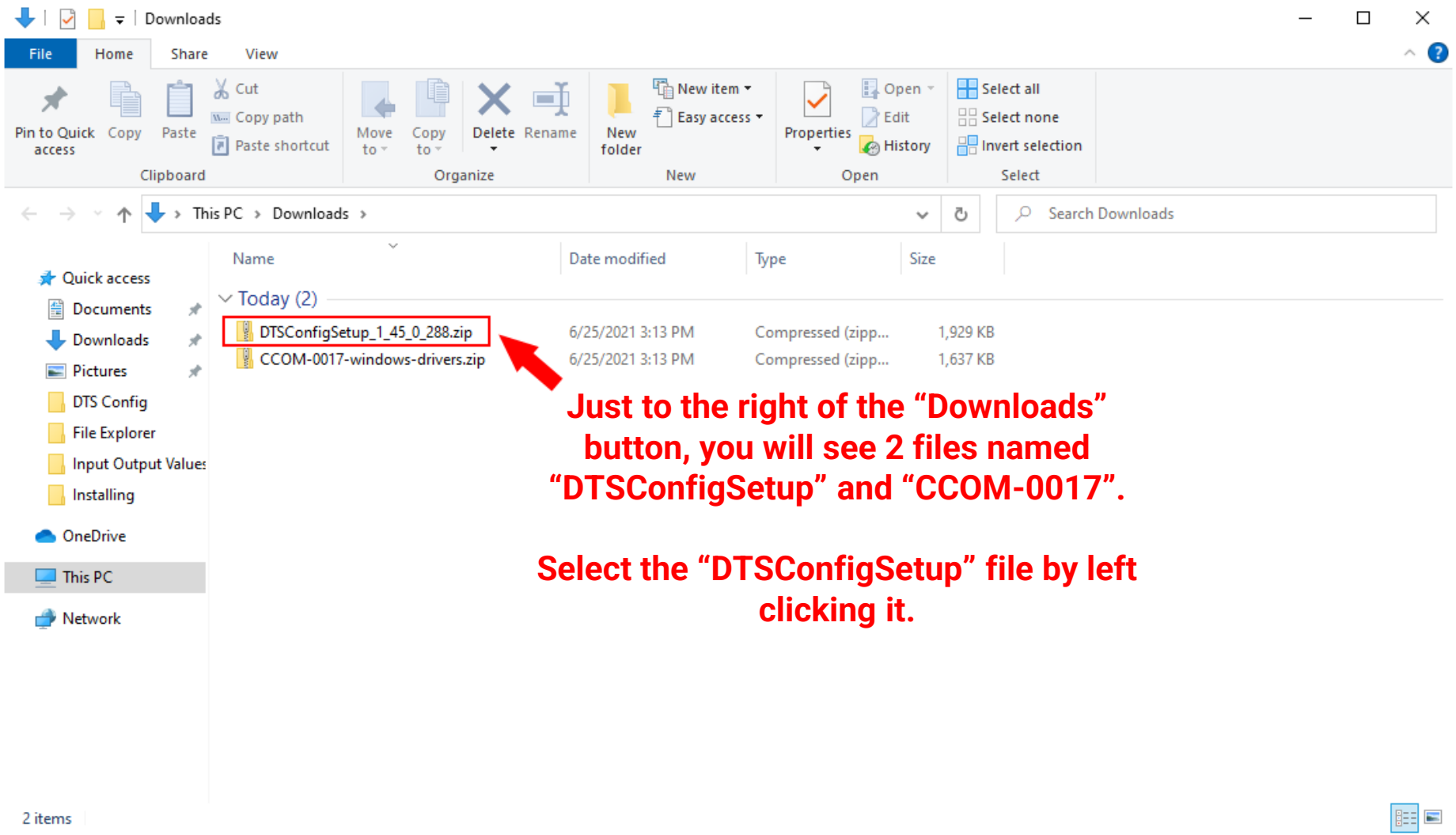


Installing DTS Config



In the Windows File Explorer on the left side look for a blue downwards pointing arrow, with the word “Downloads” next to it and click on it.

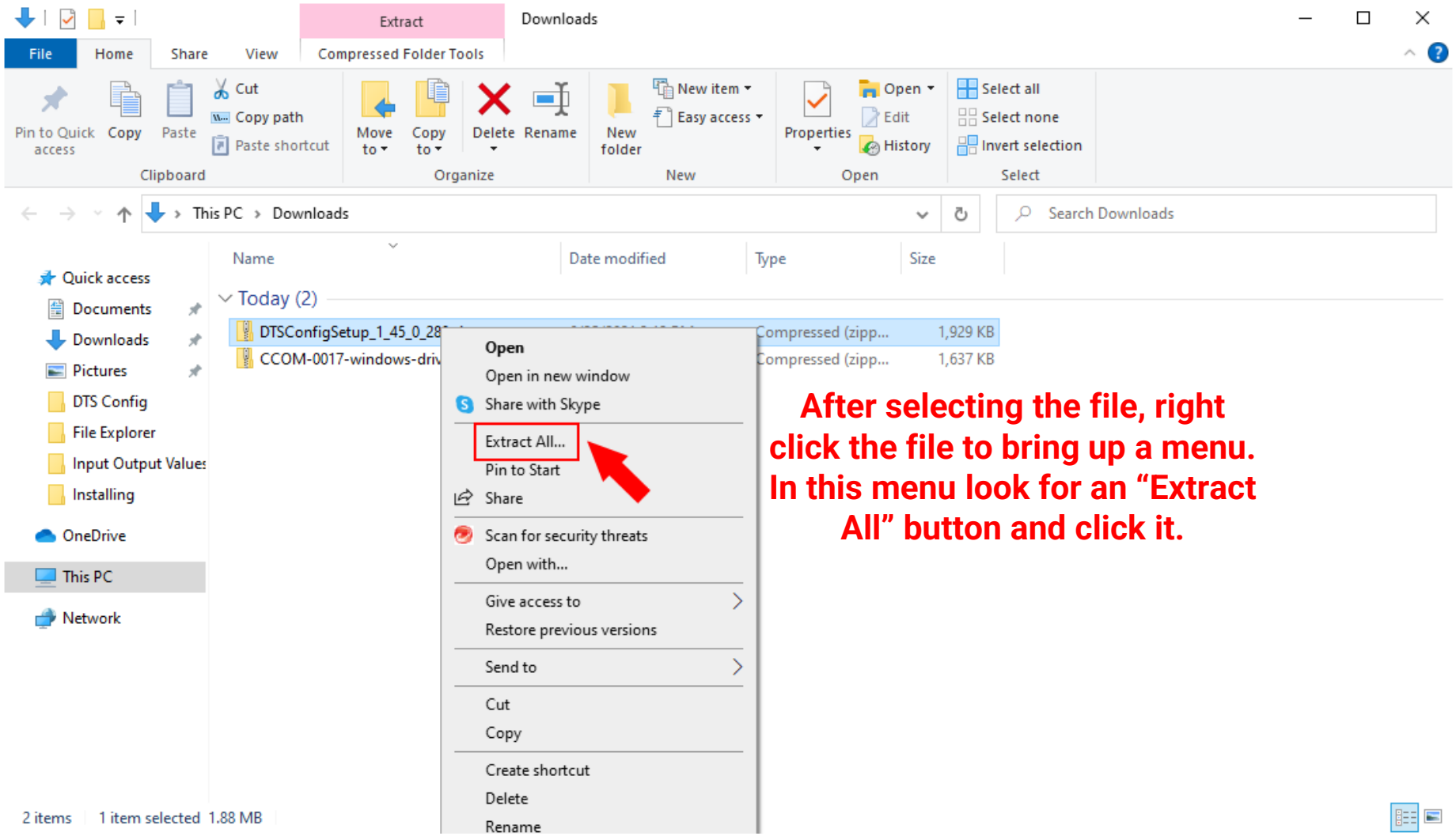
Installing DTS Config



Just to the right of the “Downloads” button, you will see 2 files named “DTSConfigSetup” and “CCOM-0017”.

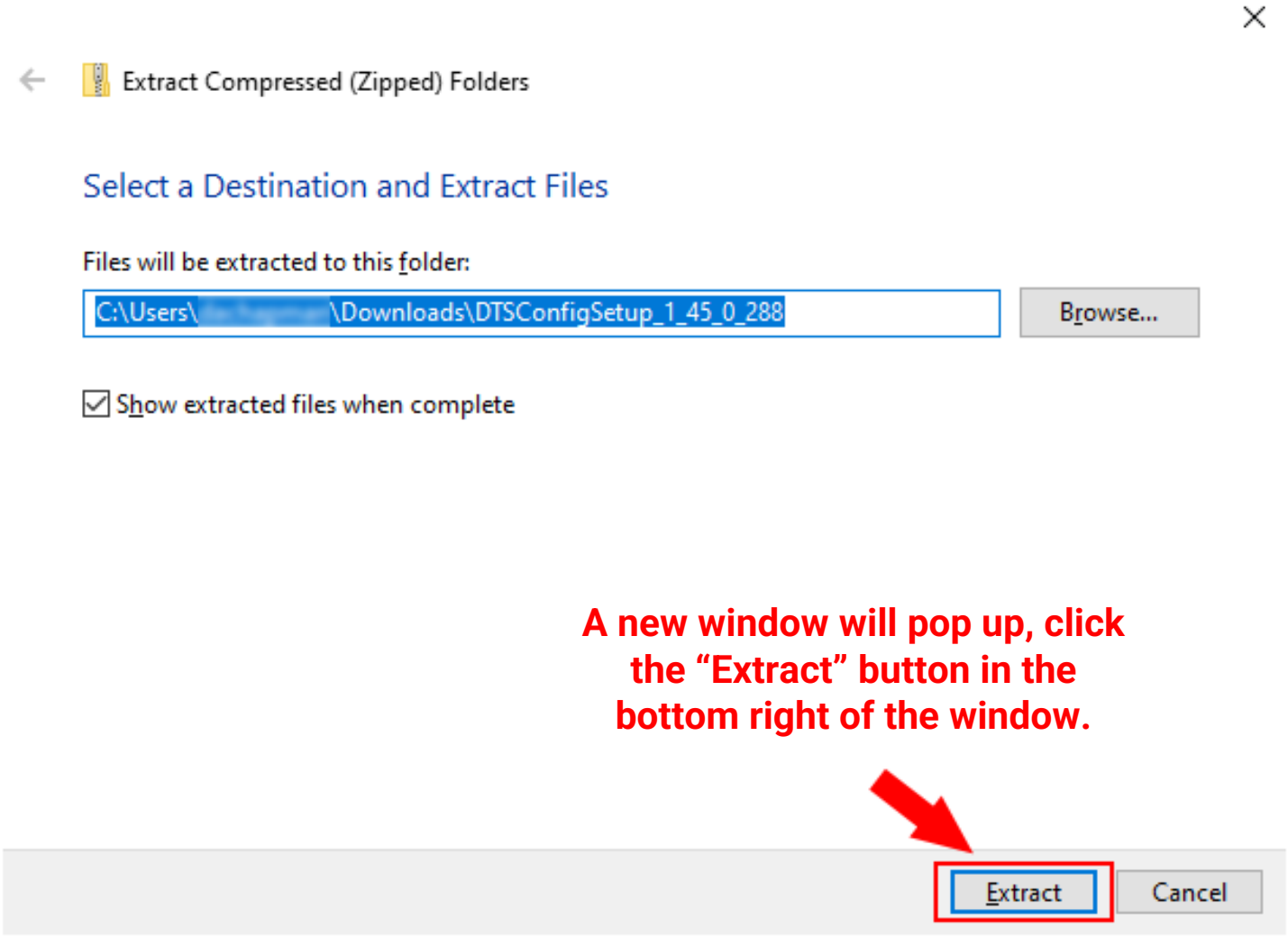
Select the “DTSConfigSetup” file by left clicking it.

Installing DTS Config



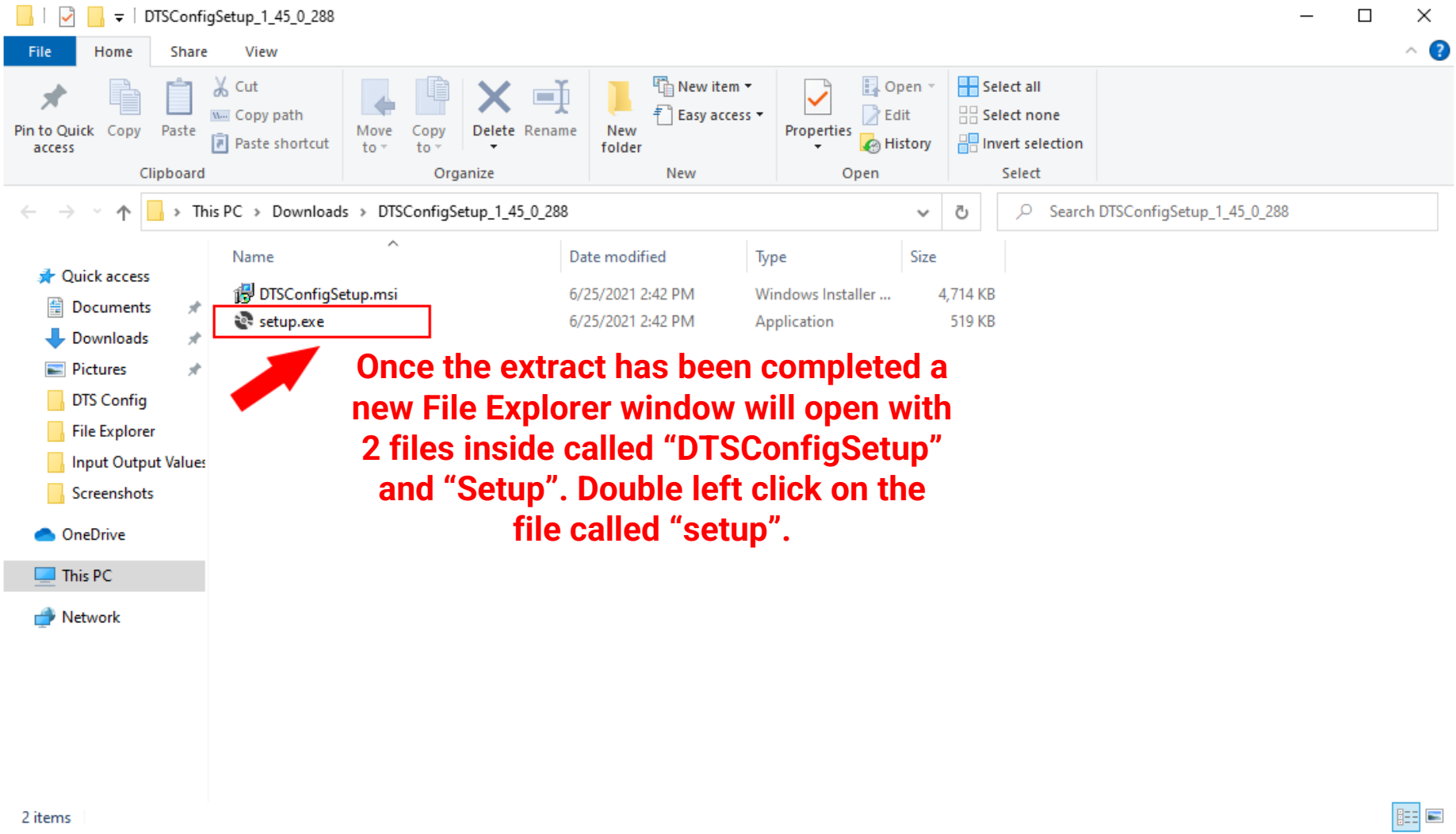
After selecting the file, right click the file to bring up a menu. In this menu look for an "Extract All" button and click it.

Installing DTS Config



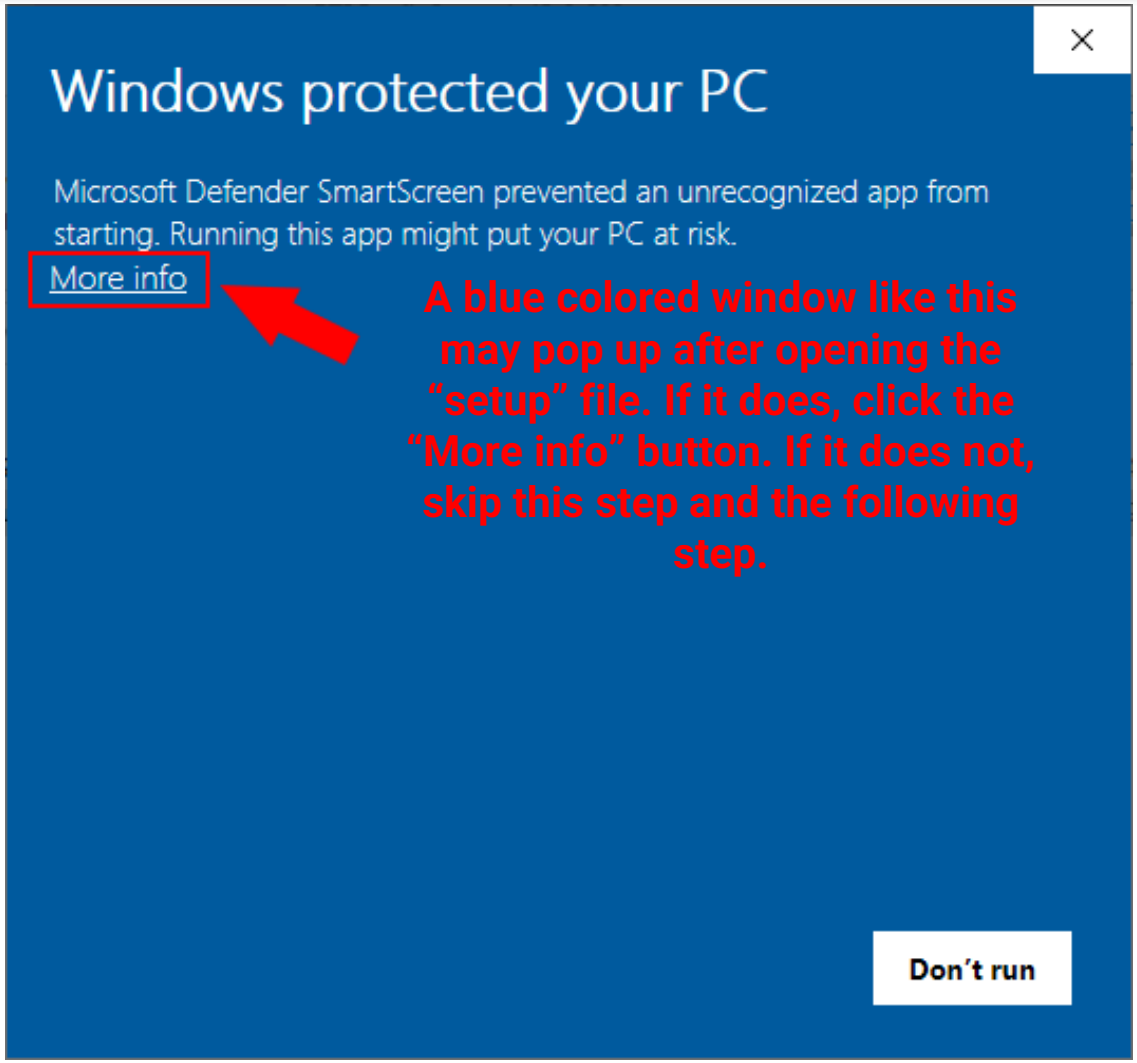
A new window will pop up, click the "Extract" button in the bottom right of the window.

Installing DTS Config

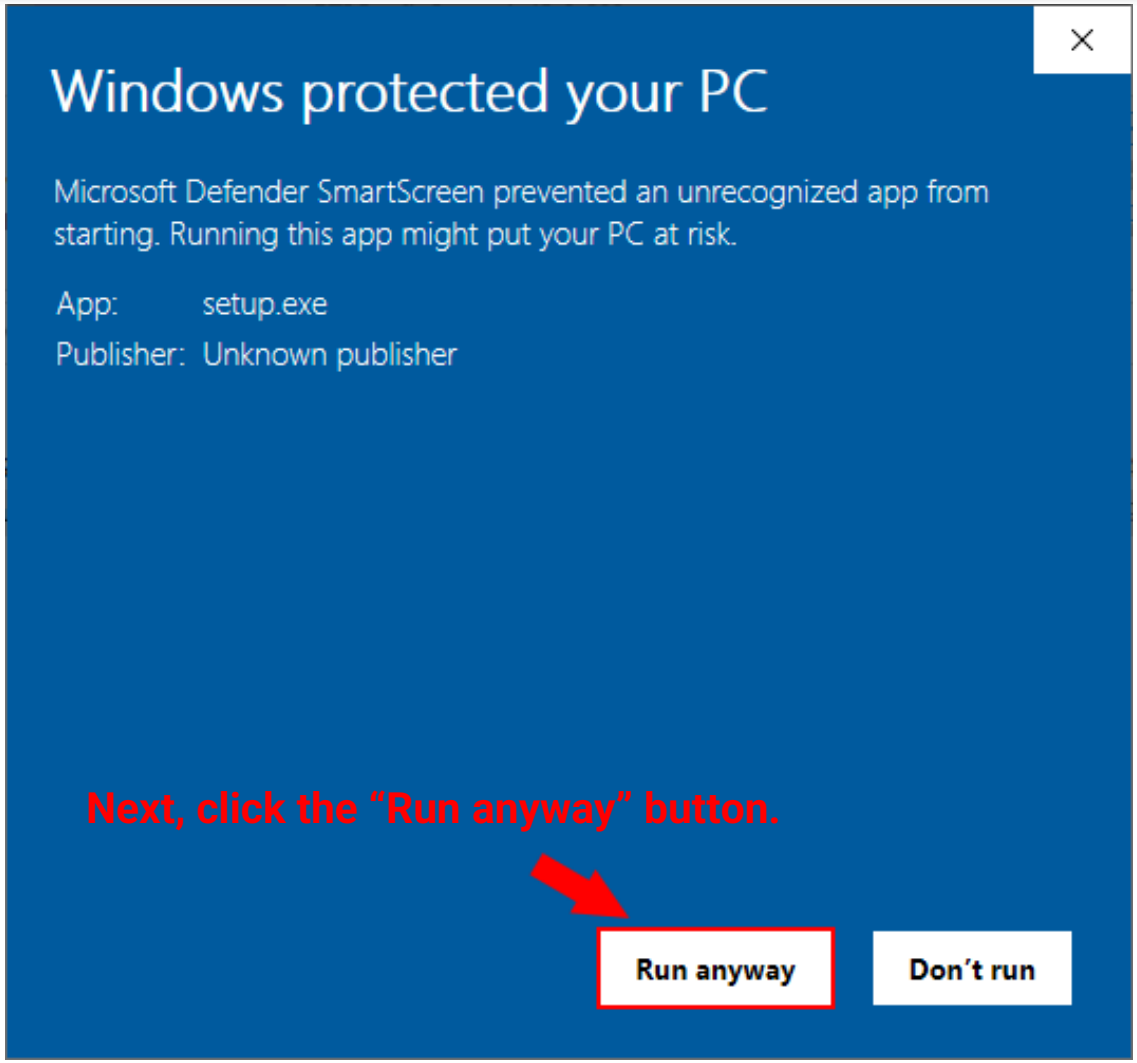


Once the extract has been completed a new File Explorer window will open with 2 files inside called “DTSConfigSetup” and “Setup”. Double left click on the file called “setup”.

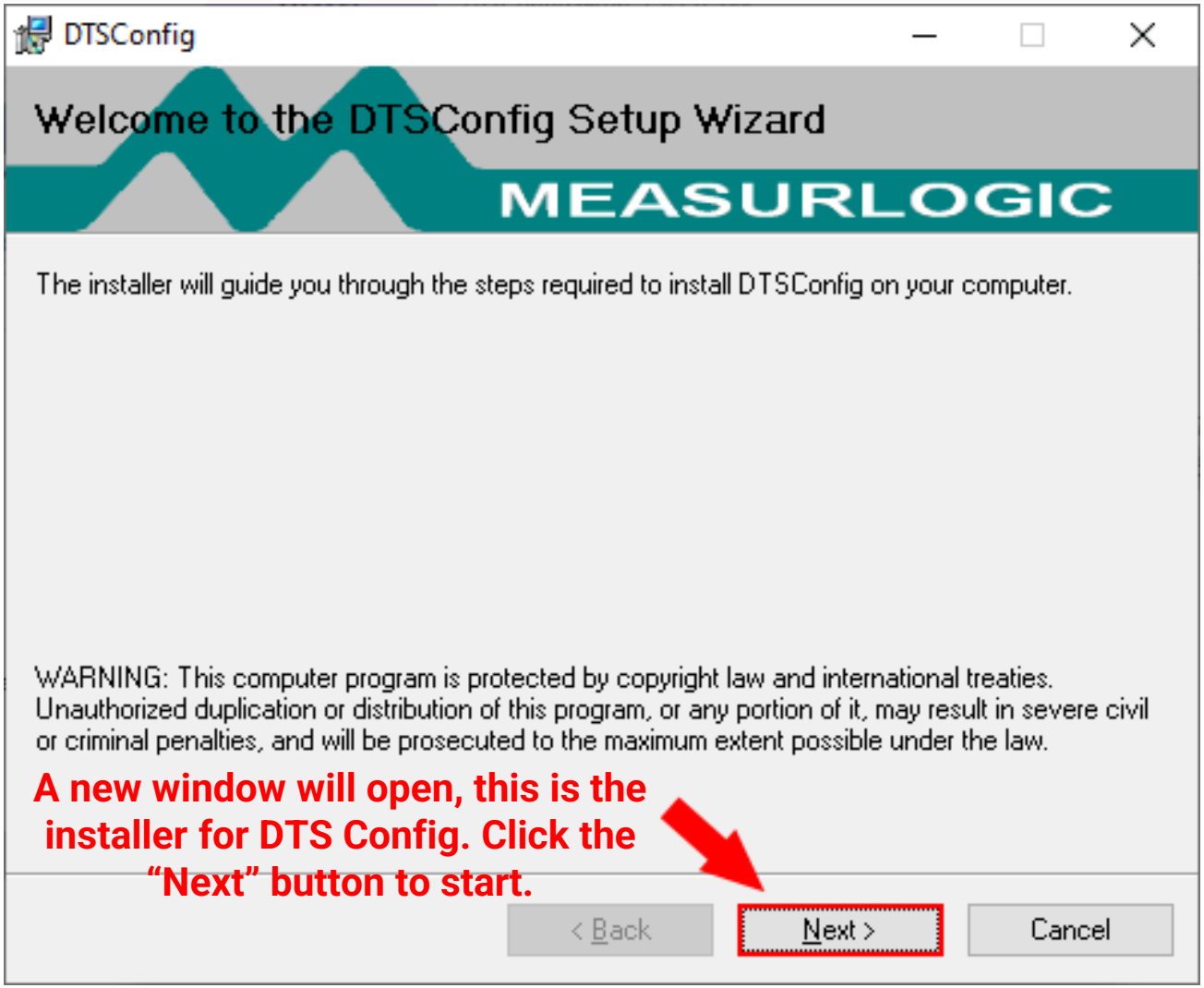
Installing DTS Config



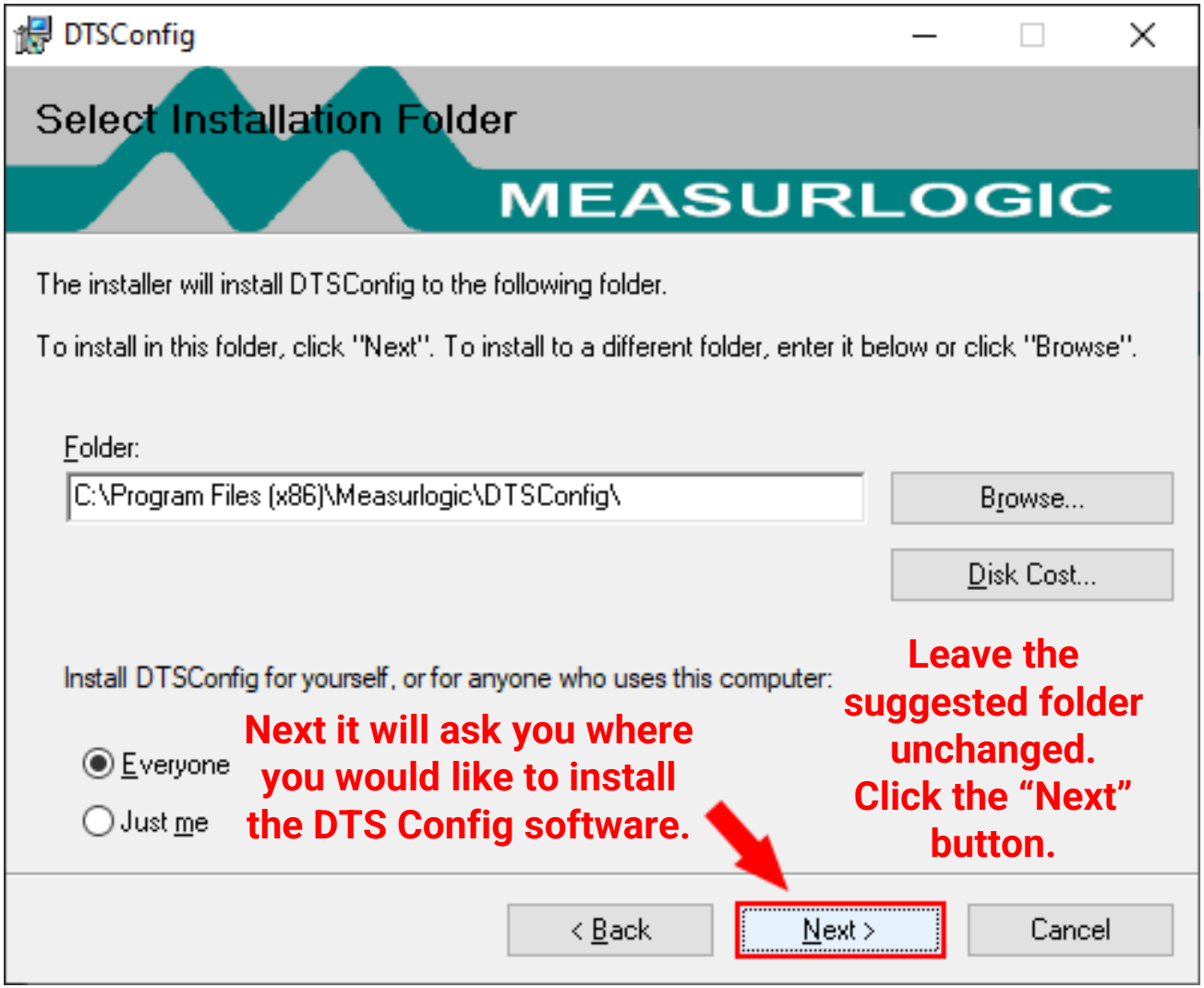
Installing DTS Config



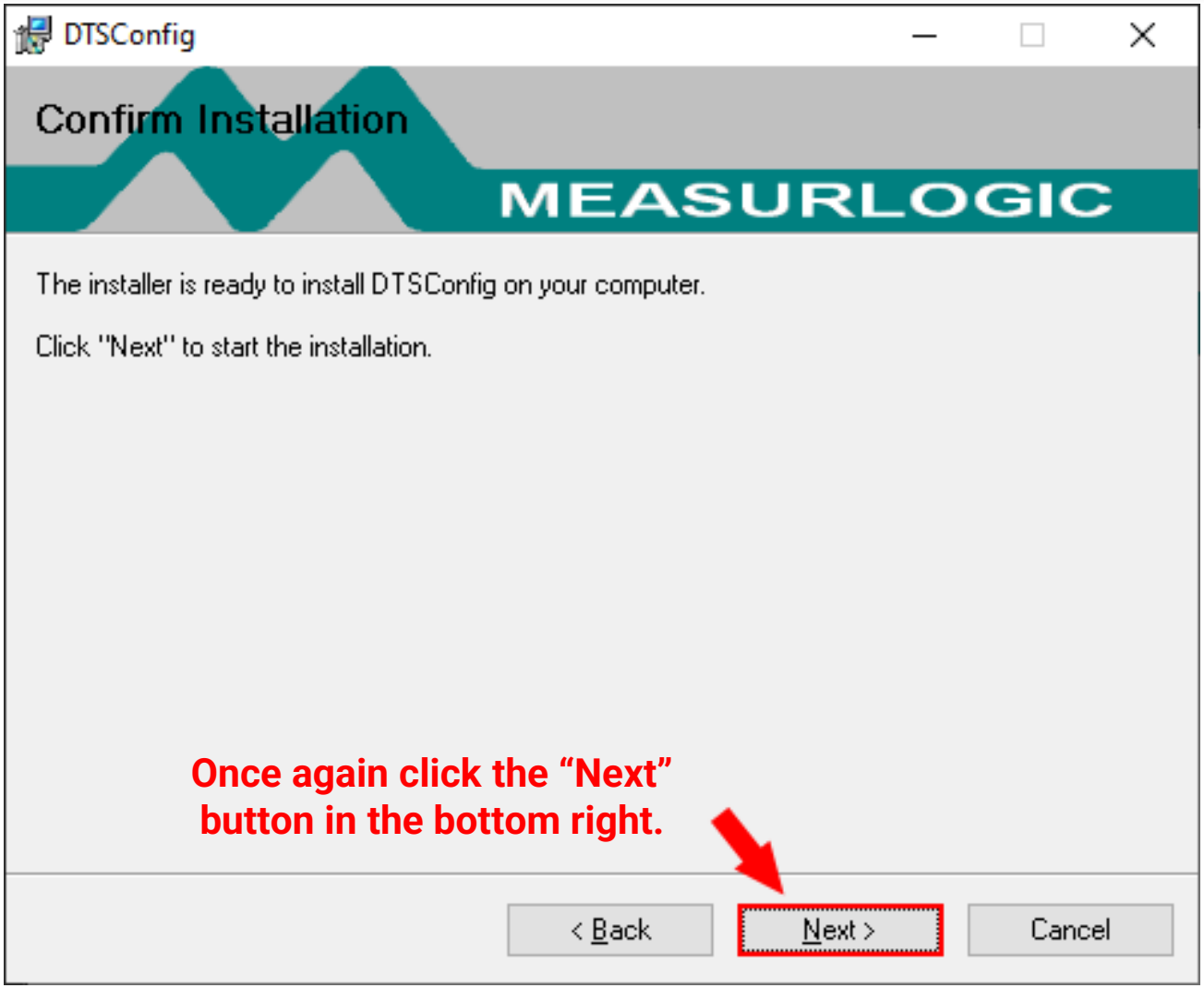
Installing DTS Config



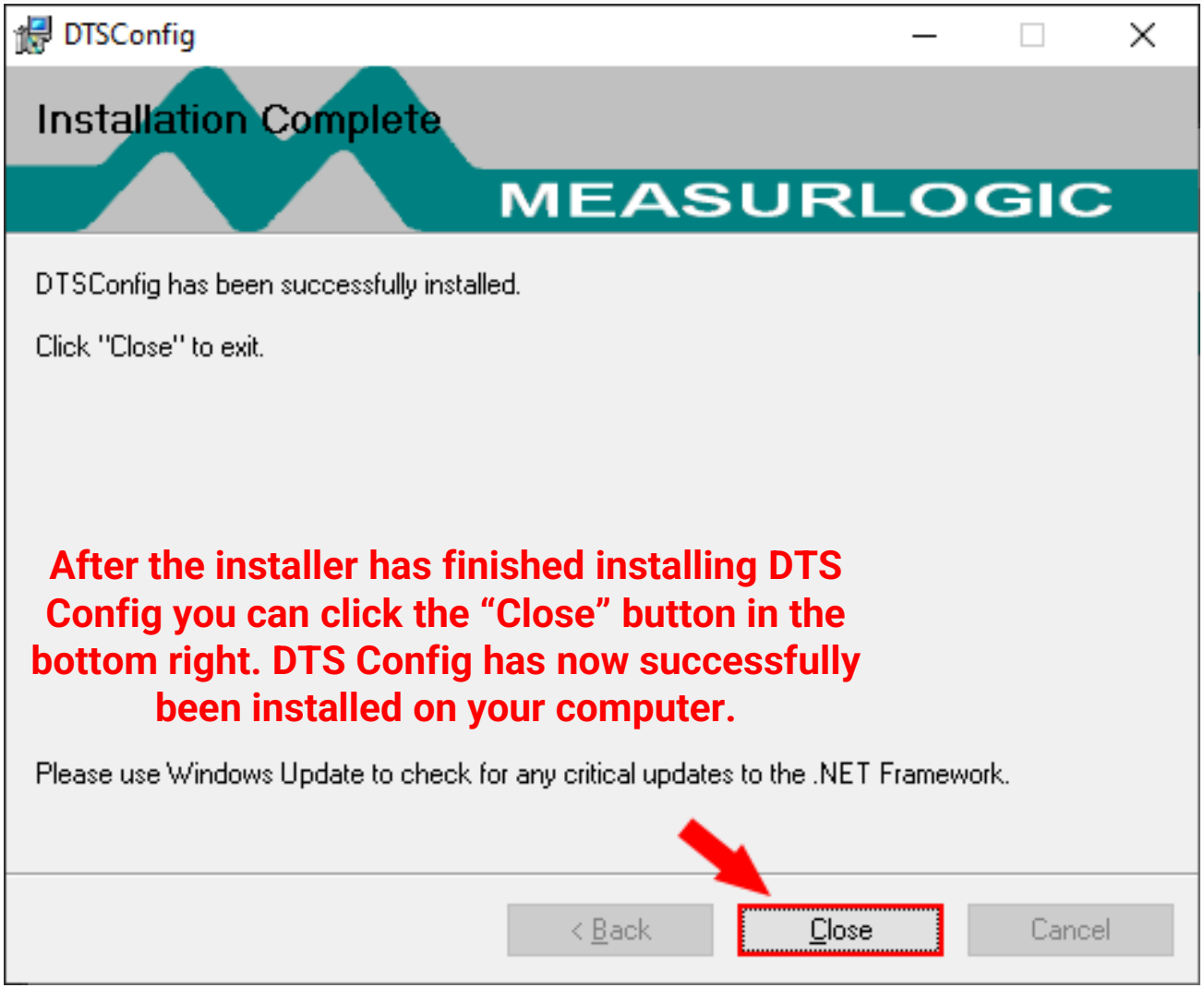
Installing DTS Config



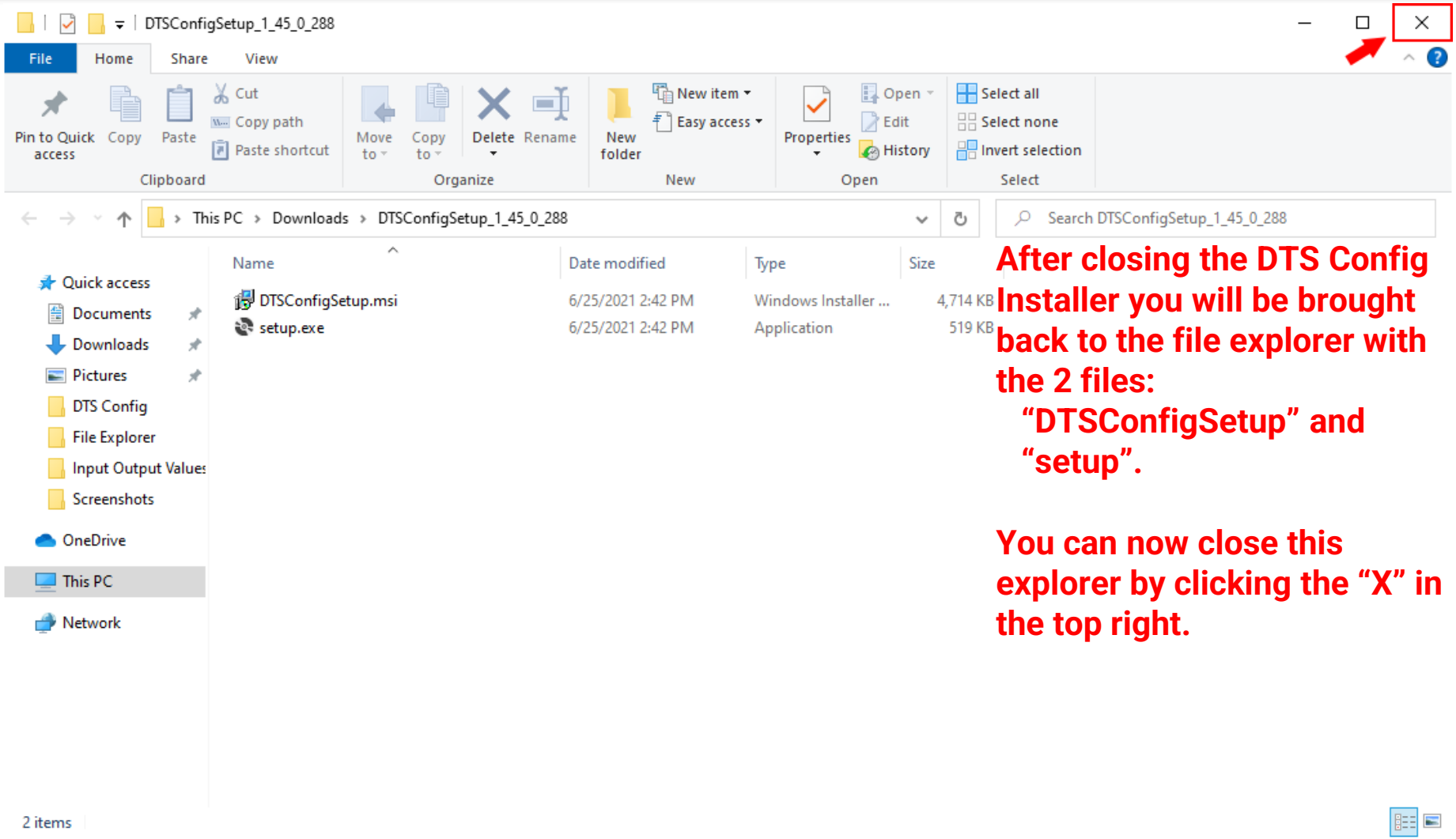
Installing DTS Config



Installing DTS Config



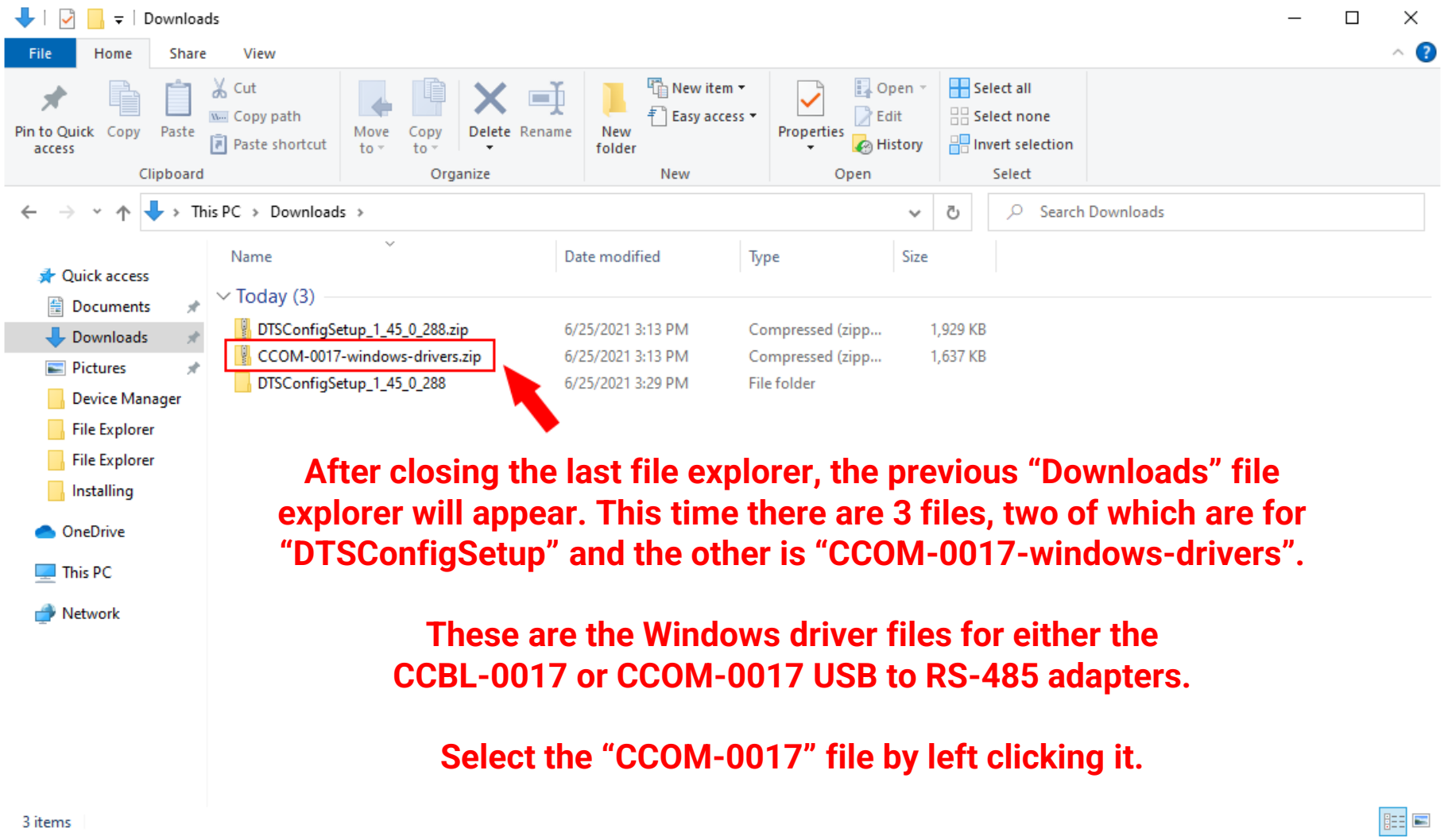
Installing USB to RS-485 Drivers



After closing the DTS Config Installer you will be brought back to the file explorer with the 2 files:
"DTSConfigSetup" and "setup".

You can now close this explorer by clicking the "X" in the top right.

Installing USB to RS-485 Drivers

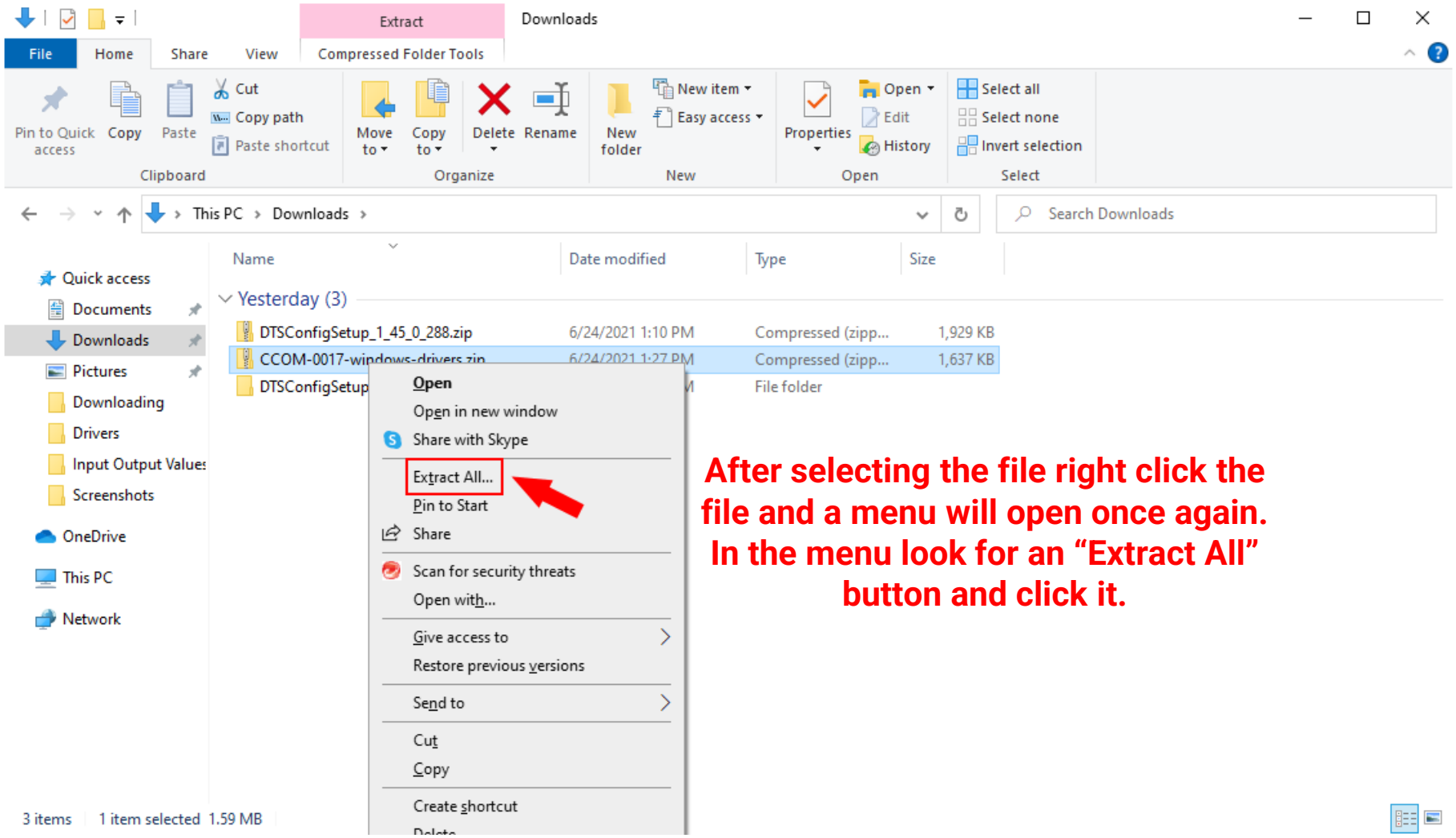


After closing the last file explorer, the previous “Downloads” file explorer will appear. This time there are 3 files, two of which are for “DTSConfigSetup” and the other is “CCOM-0017-windows-drivers”.

These are the Windows driver files for either the CCBL-0017 or CCOM-0017 USB to RS-485 adapters.

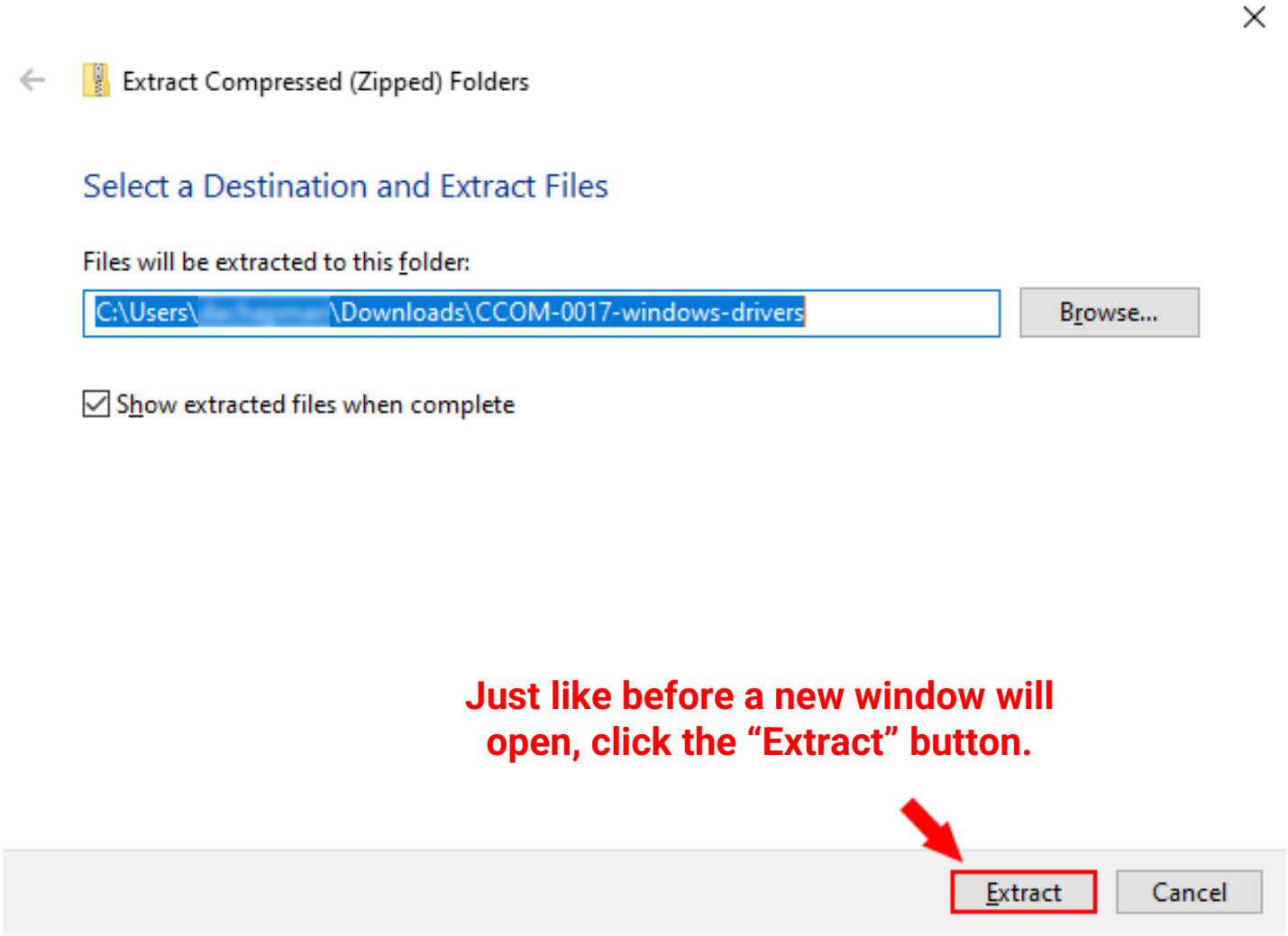
Select the “CCOM-0017” file by left clicking it.

Installing USB to RS-485 Drivers



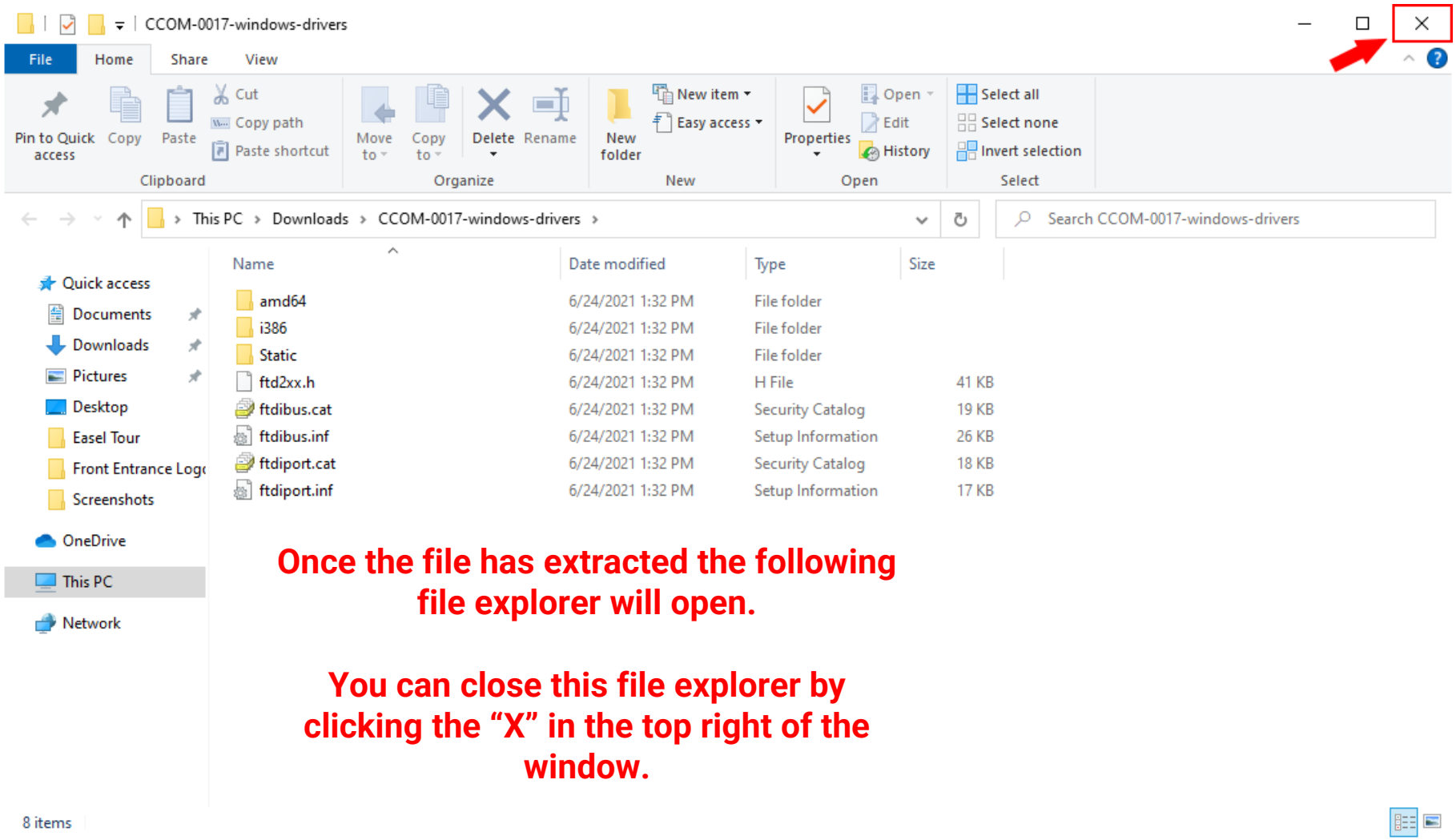
After selecting the file right click the file and a menu will open once again. In the menu look for an “Extract All” button and click it.

Installing USB to RS-485 Drivers



Just like before a new window will open, click the “Extract” button.

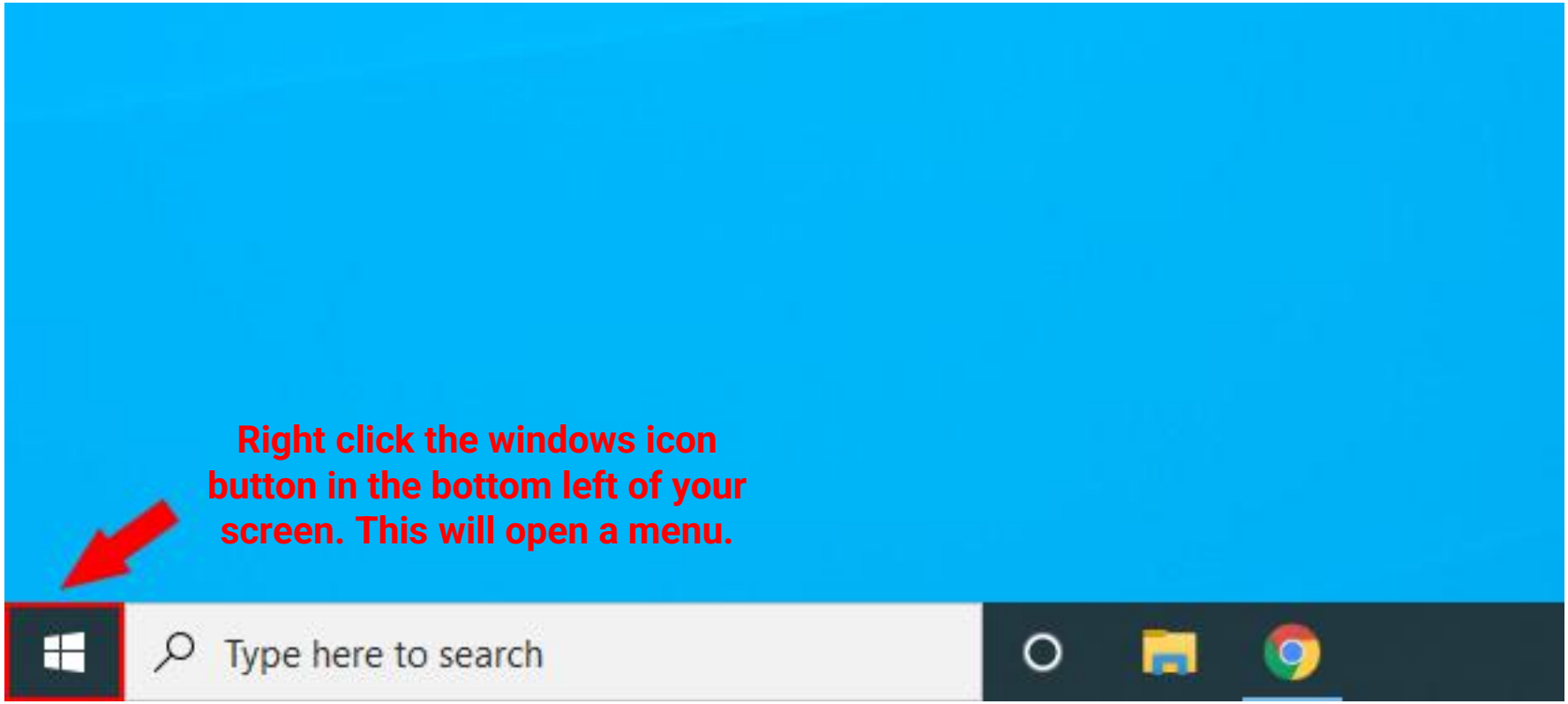
Installing USB to RS-485 Drivers



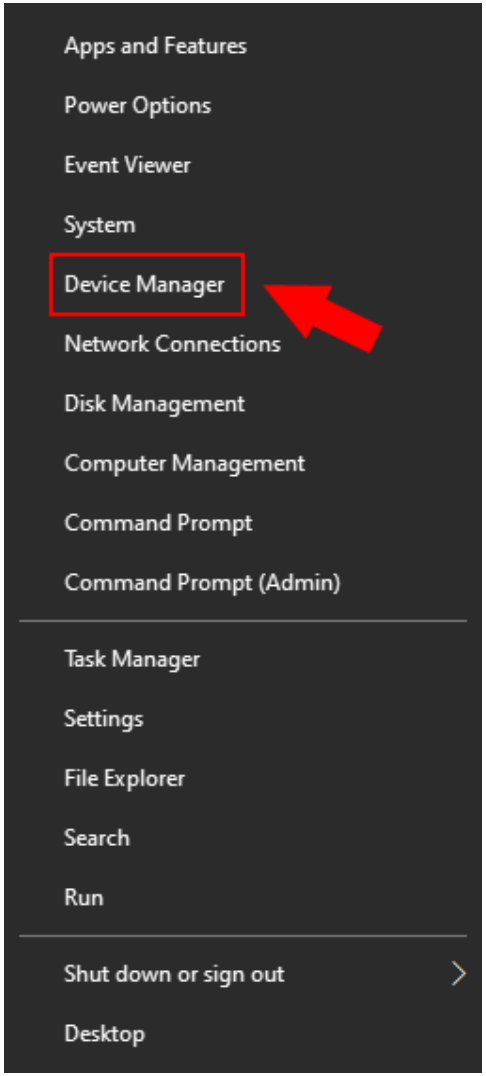
Once the file has extracted the following file explorer will open.

You can close this file explorer by clicking the “X” in the top right of the window.

Installing USB to RS-485 Drivers

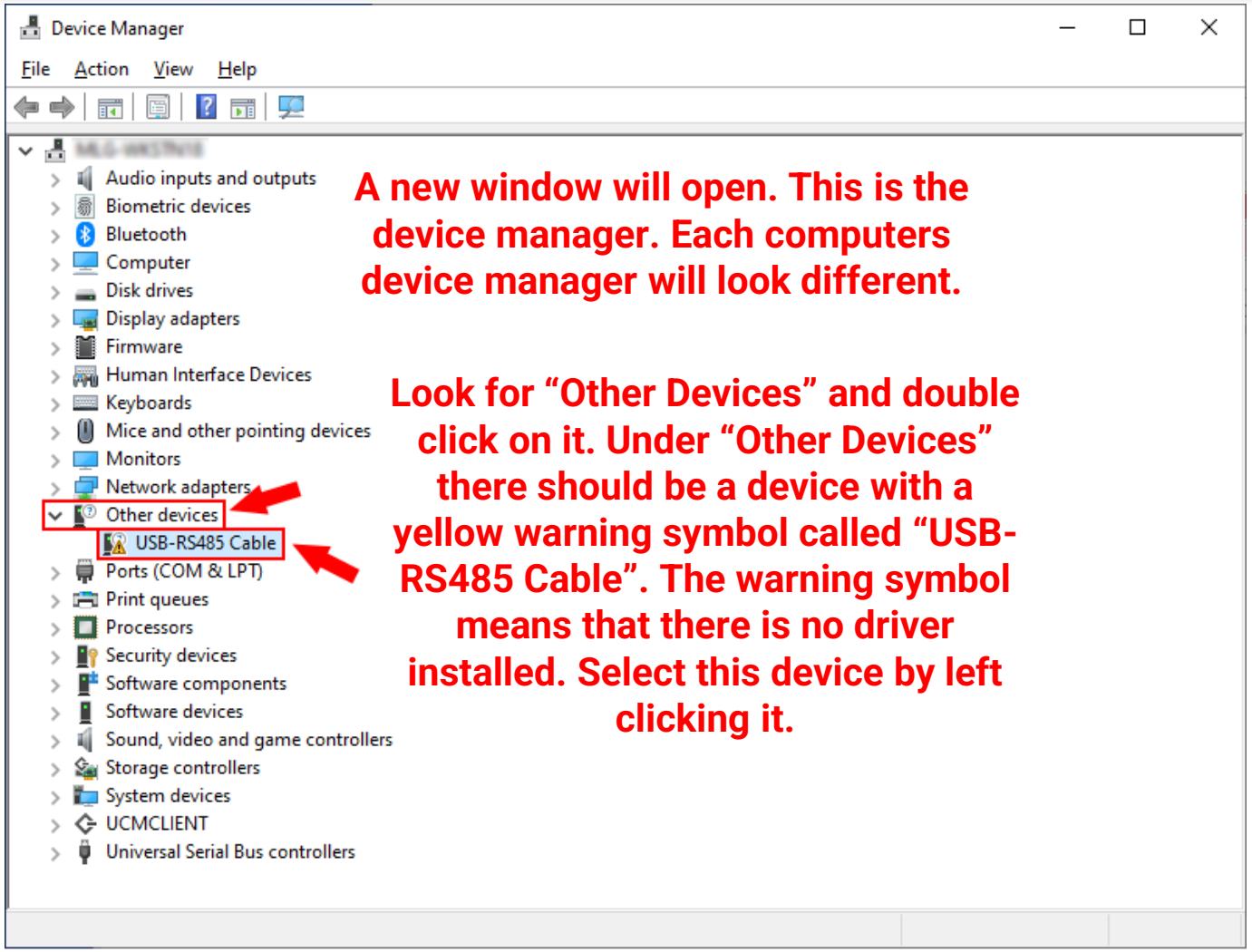


Installing USB to RS-485 Drivers



In this menu look for "Device Manager" and click on it.

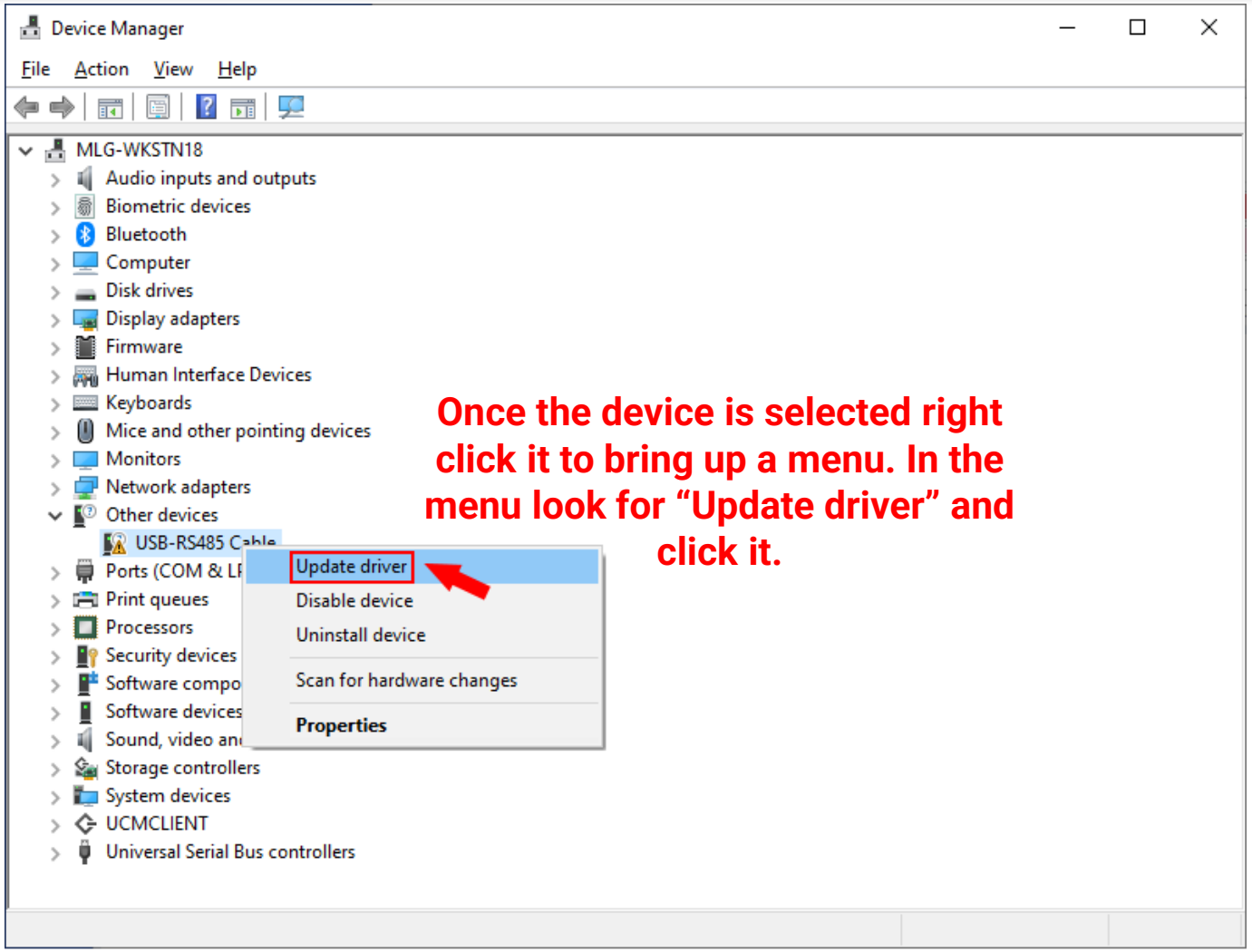
Installing USB to RS-485 Drivers



A new window will open. This is the device manager. Each computers device manager will look different.

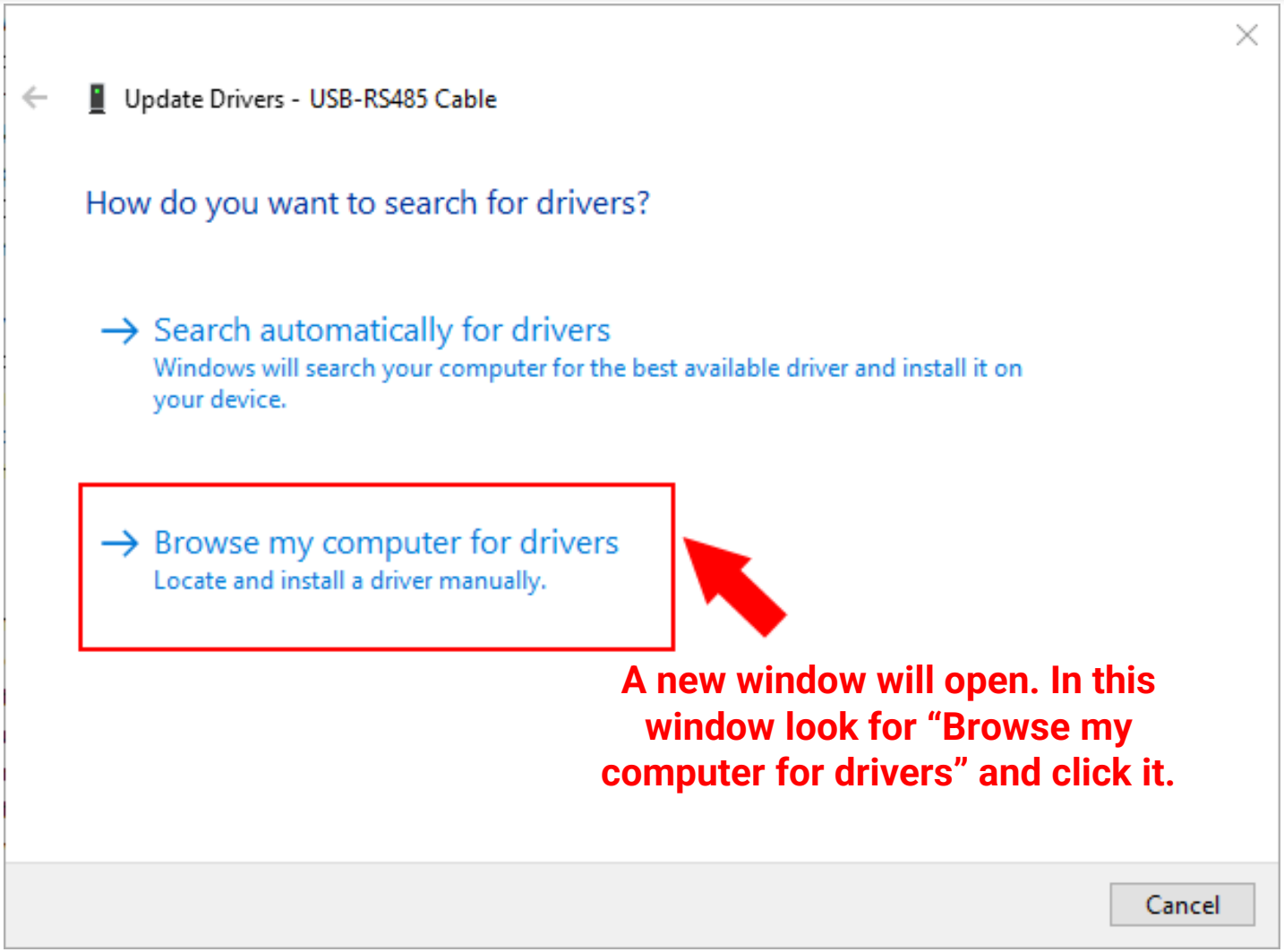
Look for "Other Devices" and double click on it. Under "Other Devices" there should be a device with a yellow warning symbol called "USB-RS485 Cable". The warning symbol means that there is no driver installed. Select this device by left clicking it.

Installing USB to RS-485 Drivers



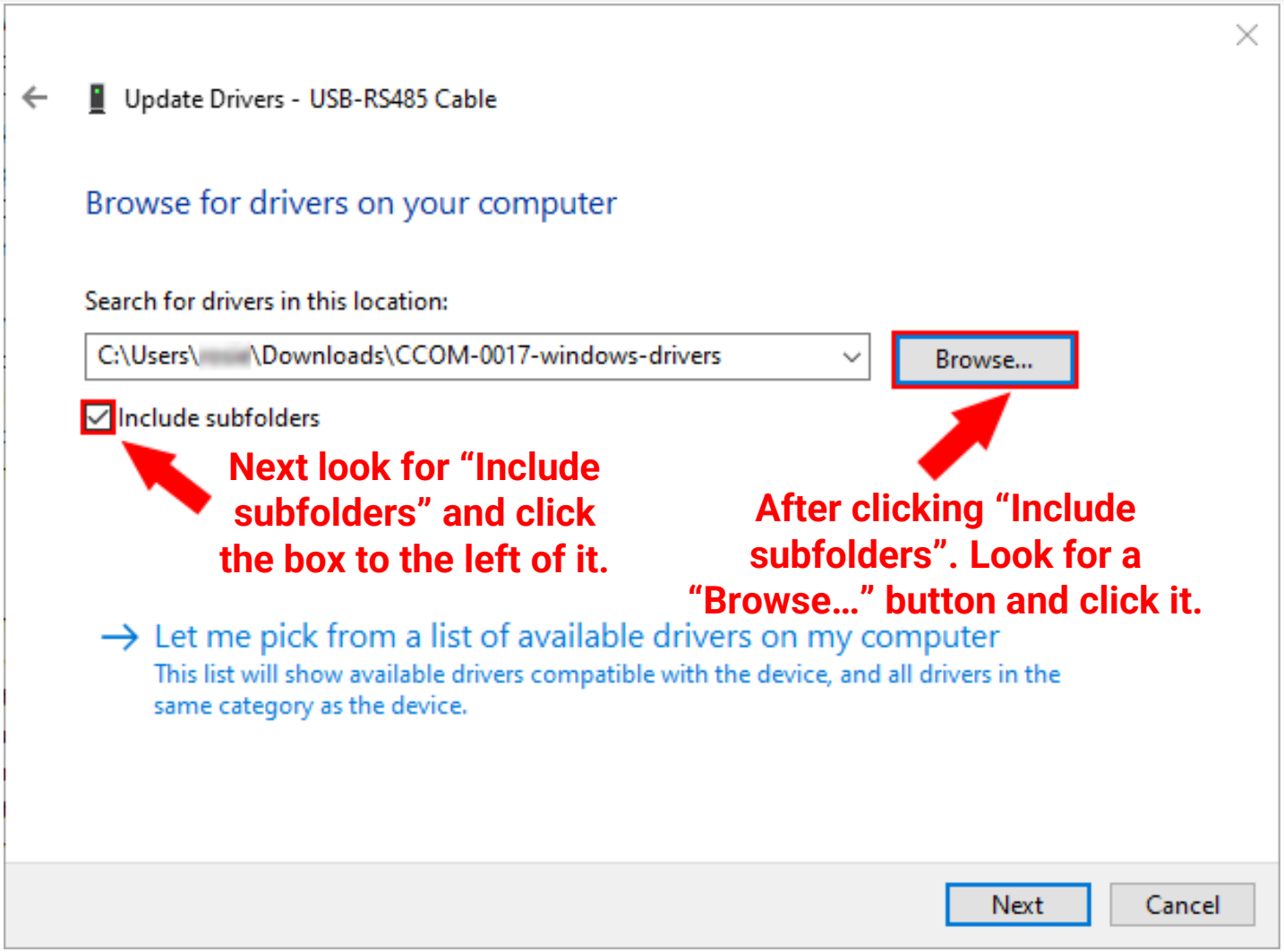
Once the device is selected right click it to bring up a menu. In the menu look for “Update driver” and click it.

Installing USB to RS-485 Drivers

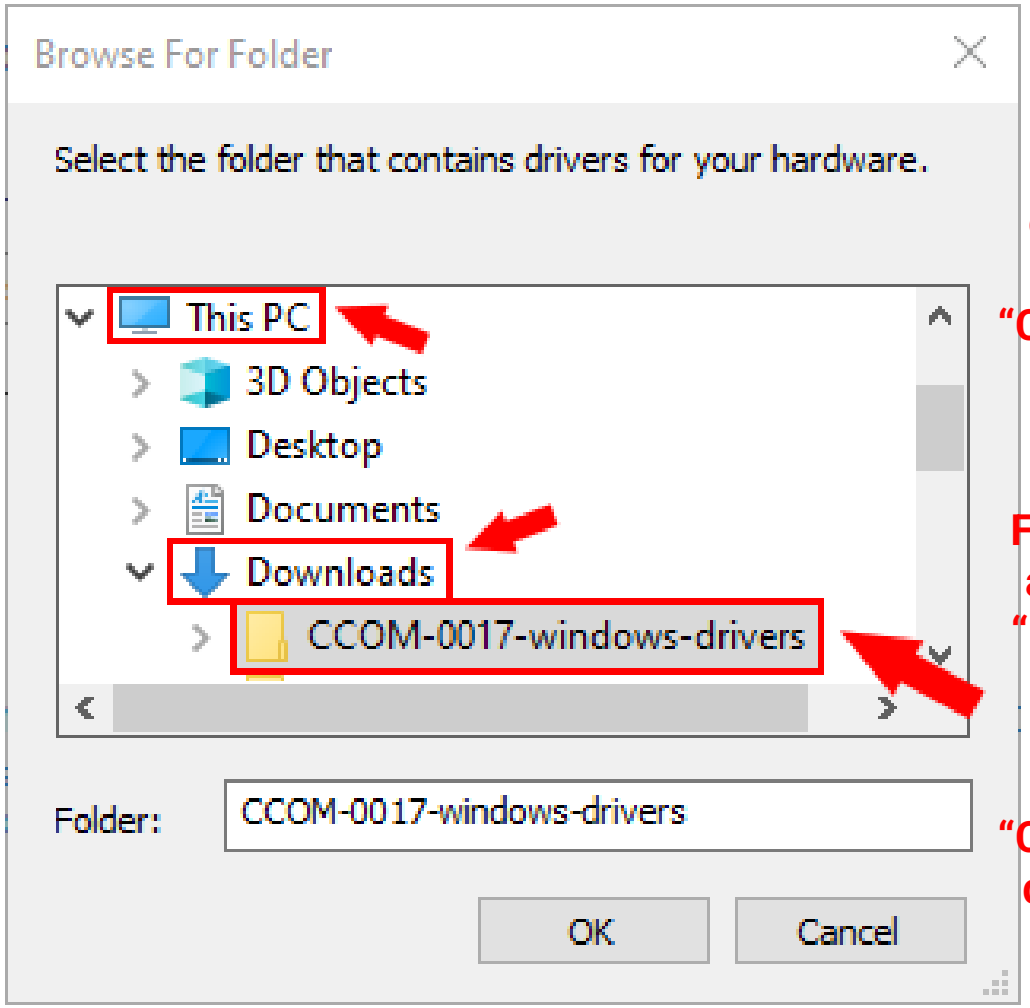


A new window will open. In this window look for "Browse my computer for drivers" and click it.

Installing USB to RS-485 Drivers



Installing USB to RS-485 Drivers

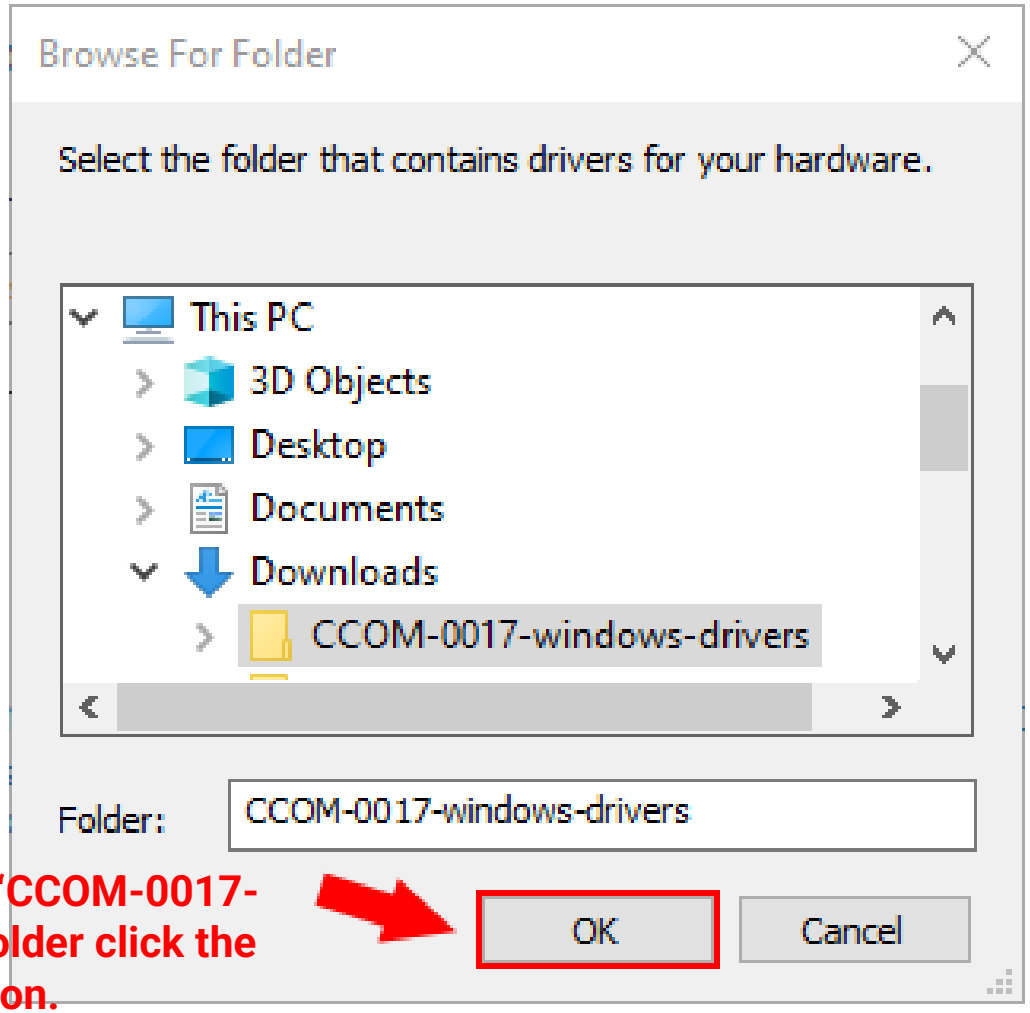


A new window will open. In this window we will select the "CCOM-0017-windows-drivers" folder from earlier.

First look for "This PC" and click it, then find "Downloads" and click it.

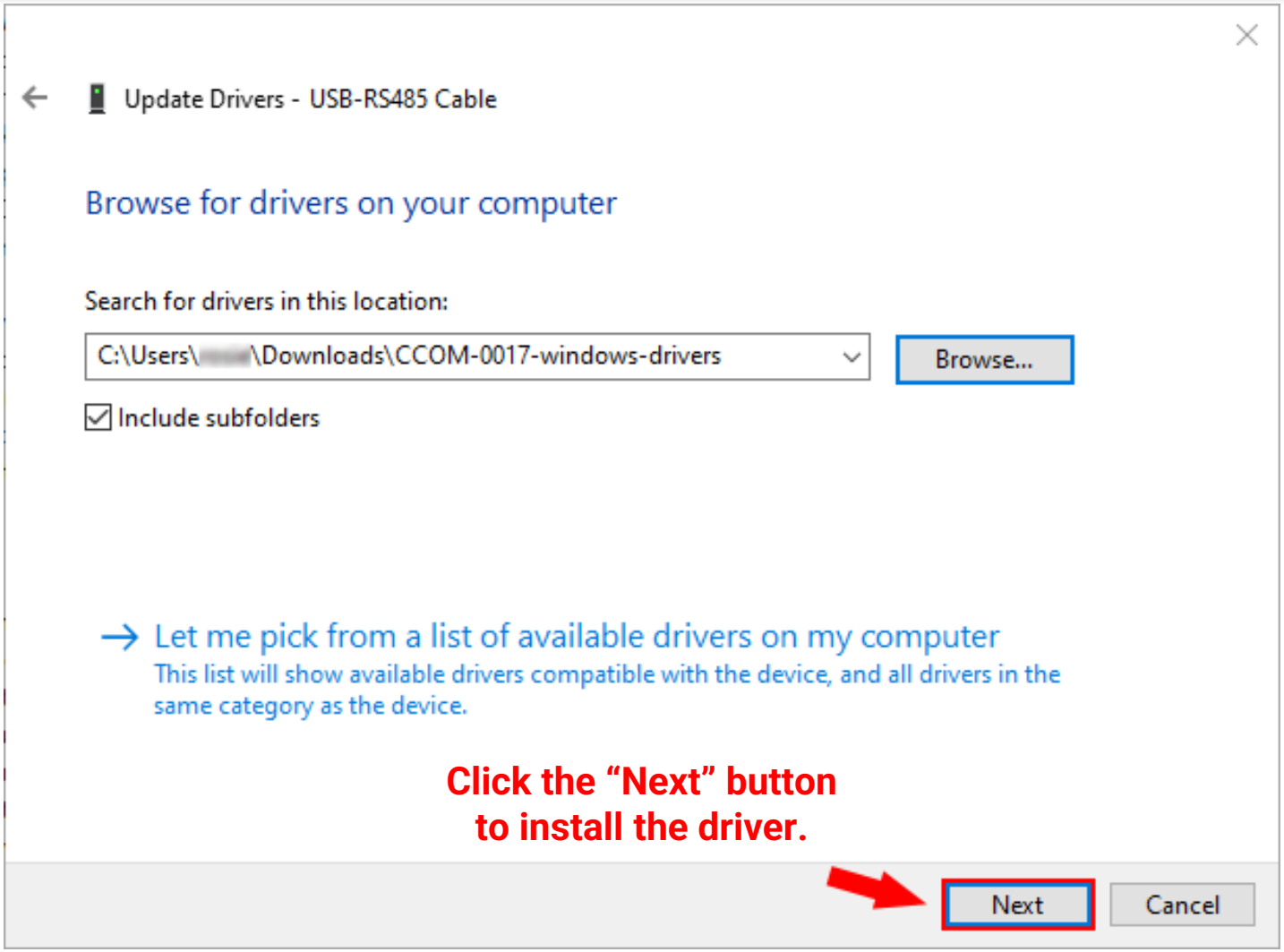
Finally select the "CCOM-0017-windows-drivers" folder by left clicking it.

Installing USB to RS-485 Drivers

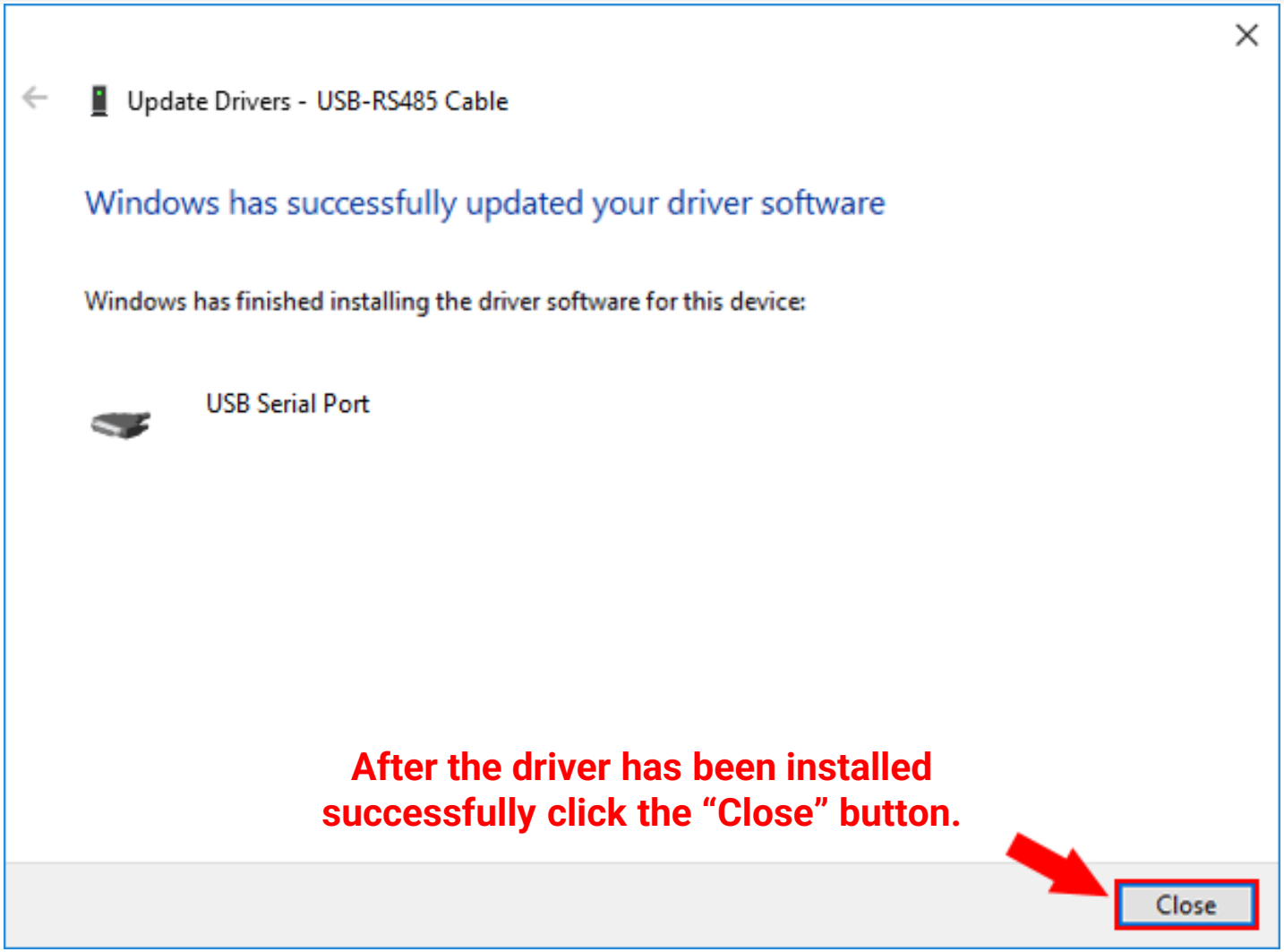


After selecting the "CCOM-0017-windows-drivers" folder click the "OK" button.

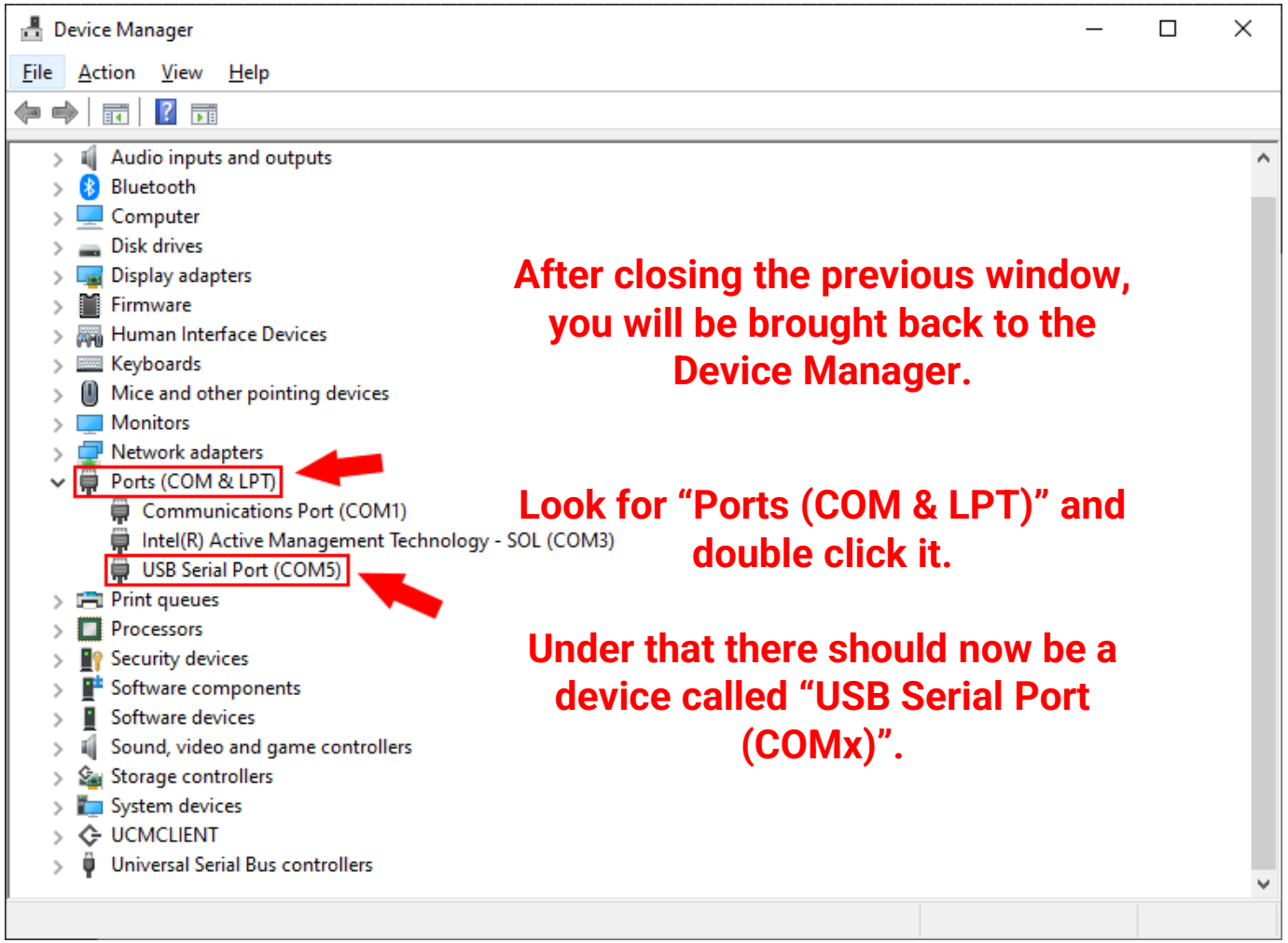
Installing USB to RS-485 Drivers



Installing USB to RS-485 Drivers



Ensuring the driver installed correctly

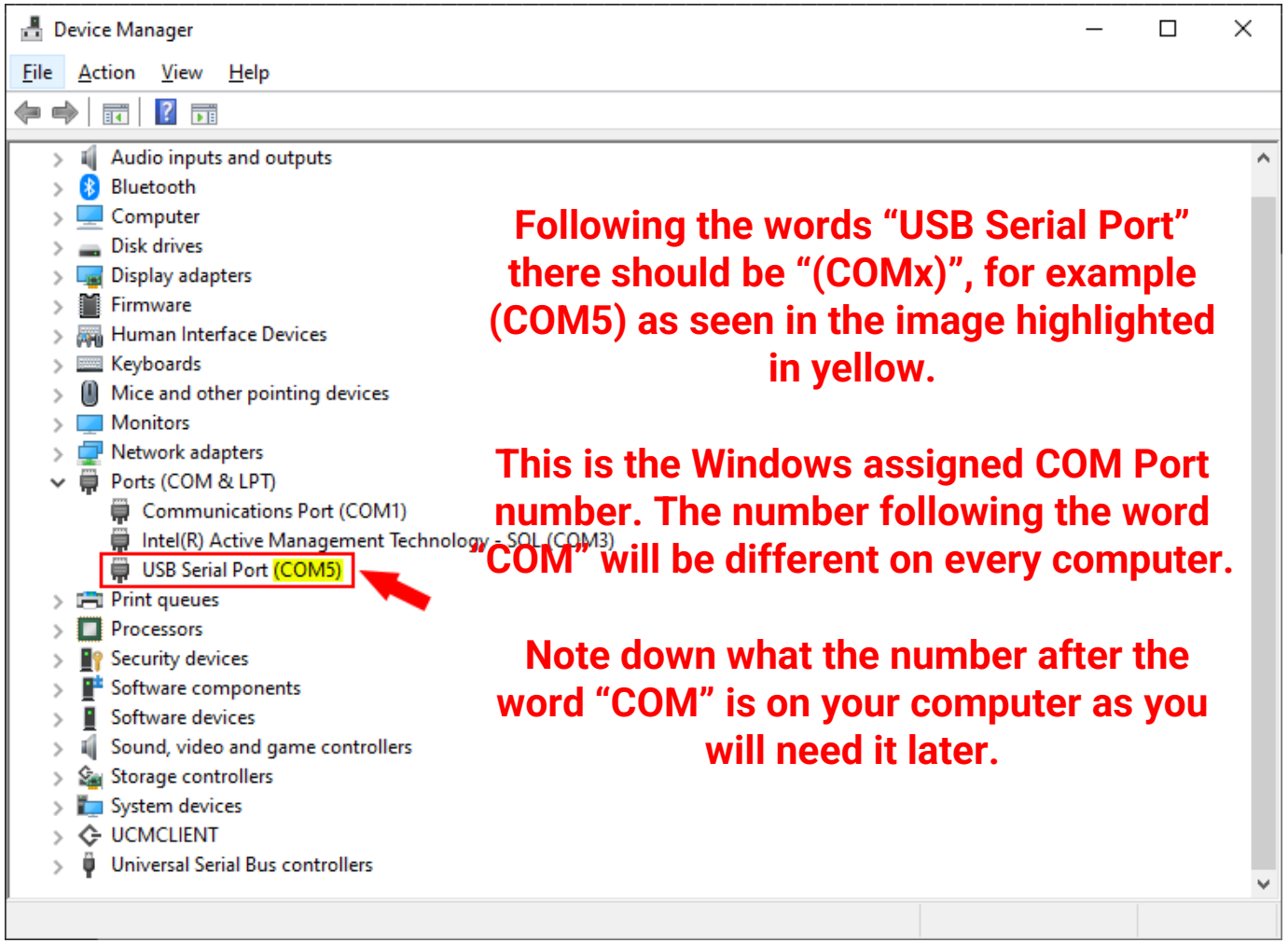


After closing the previous window, you will be brought back to the Device Manager.

Look for “Ports (COM & LPT)” and double click it.

Under that there should now be a device called “USB Serial Port (COMx)”.

Seeing the COM Port Number

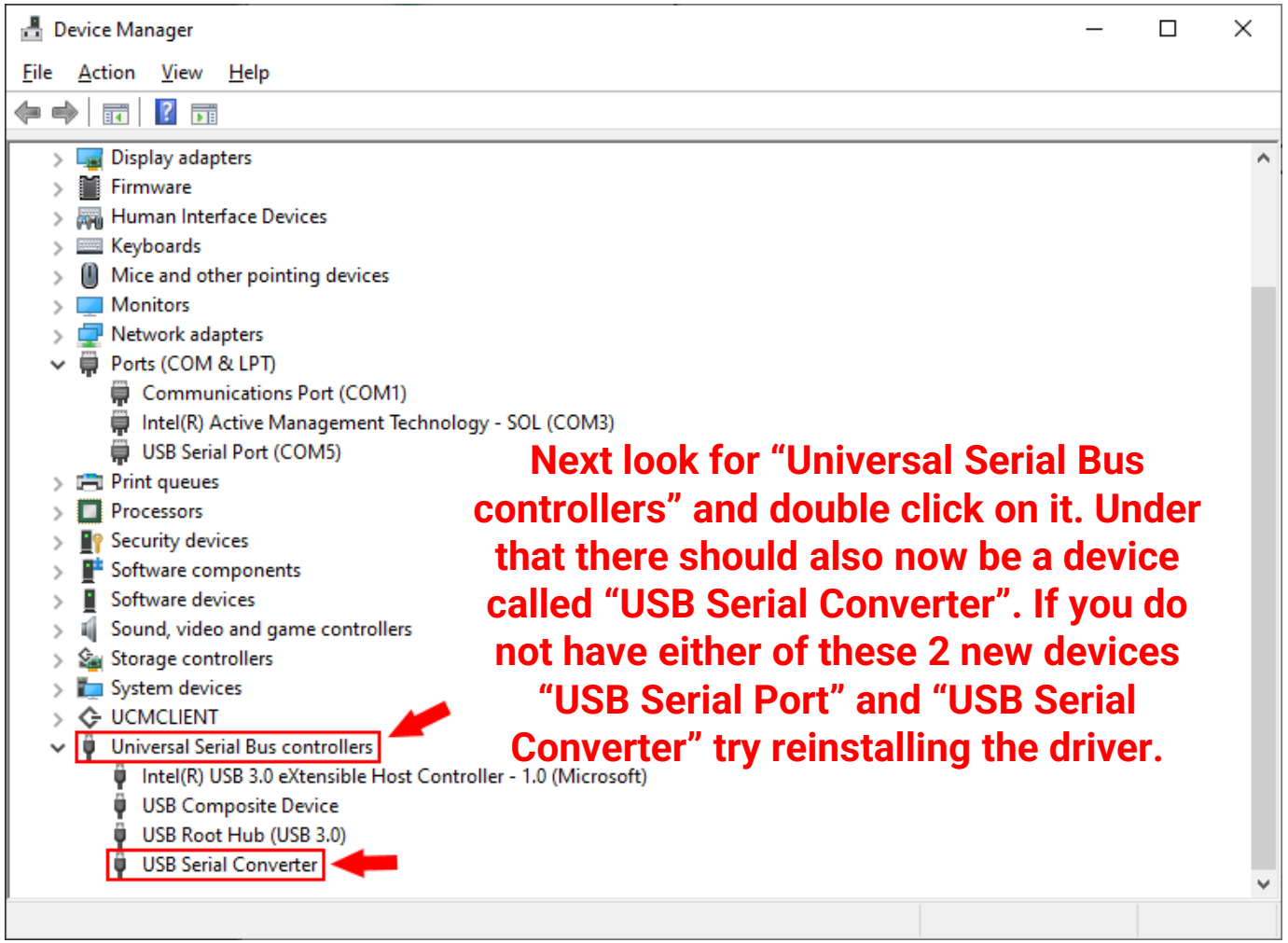


Following the words "USB Serial Port" there should be "(COMx)", for example (COM5) as seen in the image highlighted in yellow.

This is the Windows assigned COM Port number. The number following the word "COM" will be different on every computer.

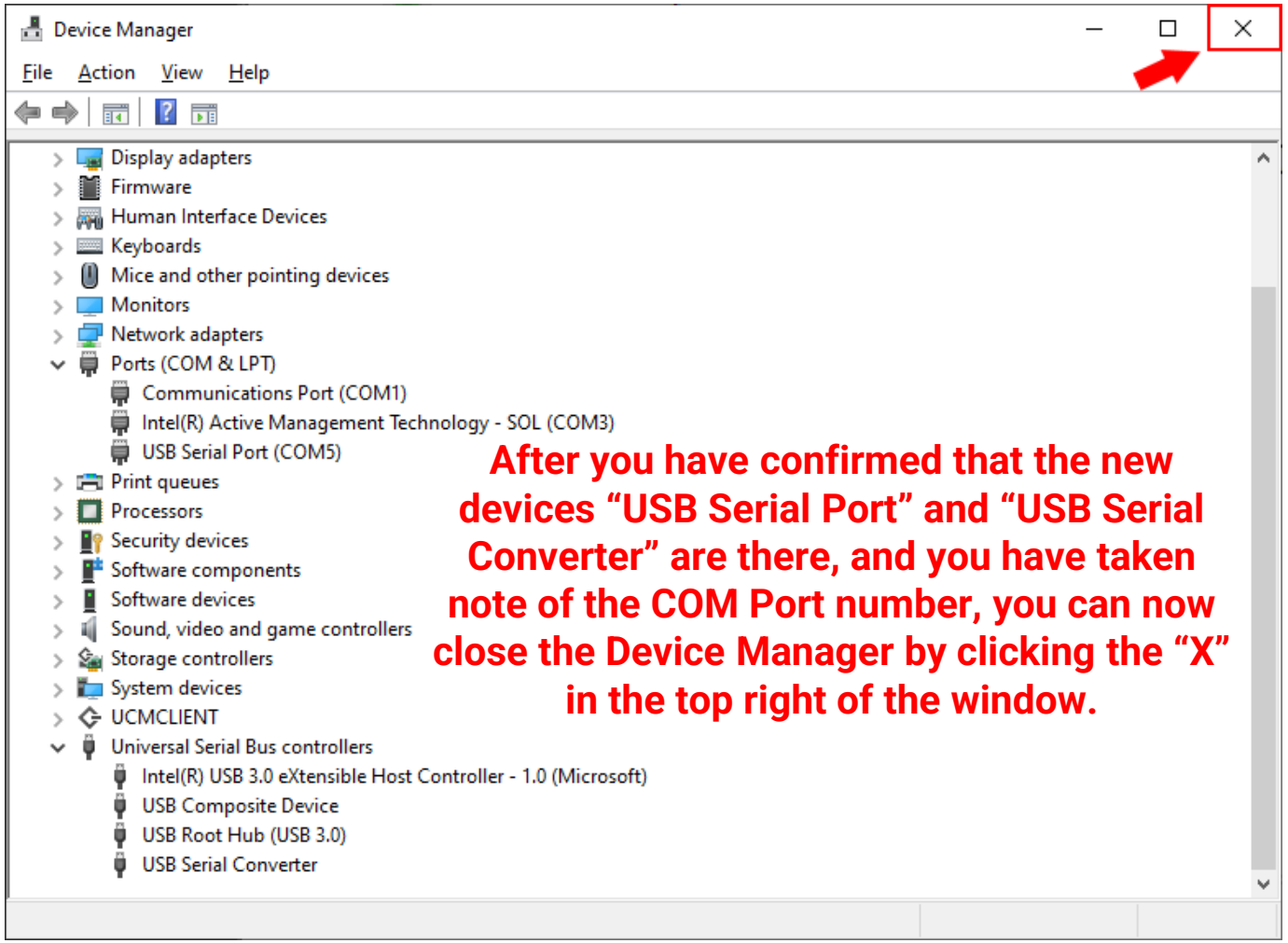
Note down what the number after the word "COM" is on your computer as you will need it later.

Ensuring the driver installed correctly



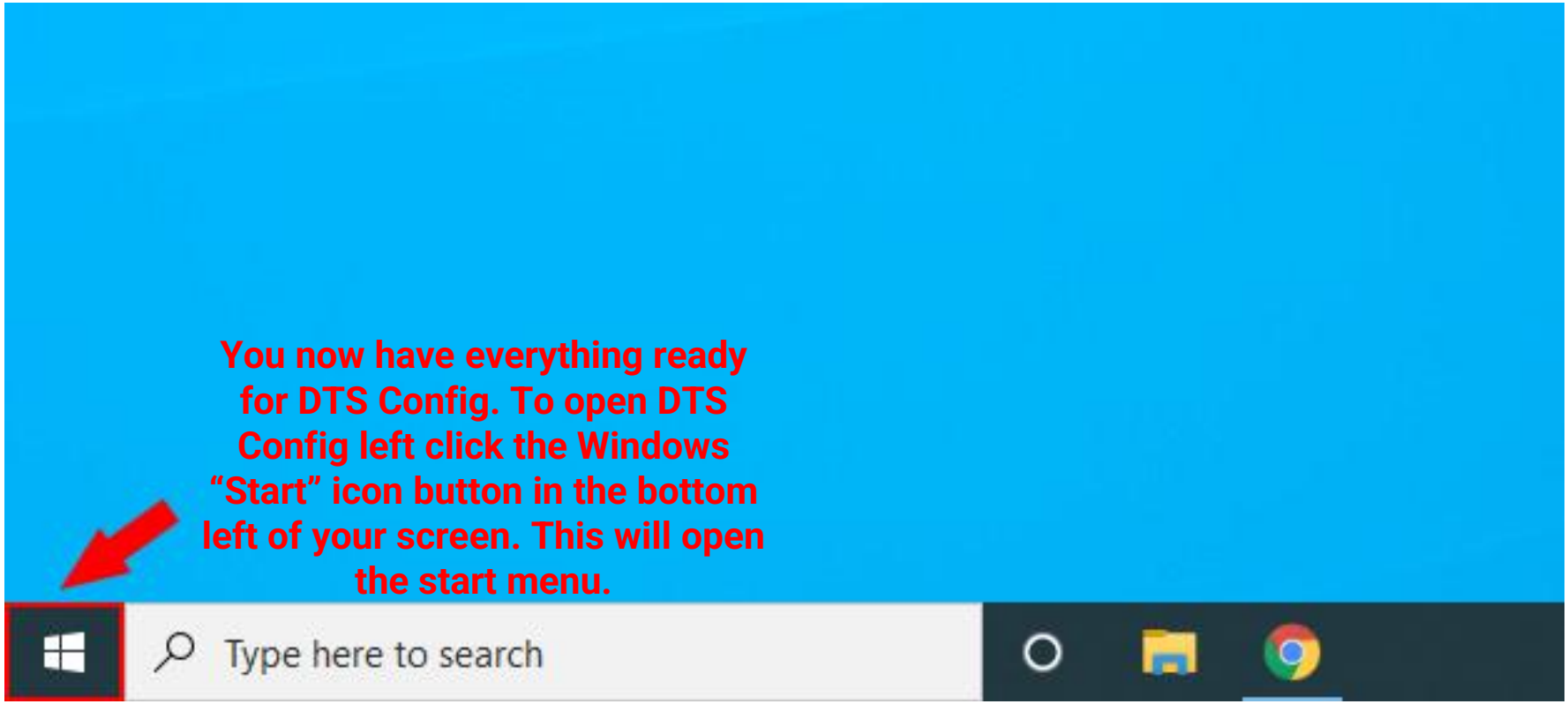
Next look for "Universal Serial Bus controllers" and double click on it. Under that there should also now be a device called "USB Serial Converter". If you do not have either of these 2 new devices "USB Serial Port" and "USB Serial Converter" try reinstalling the driver.

Ensuring the driver installed correctly



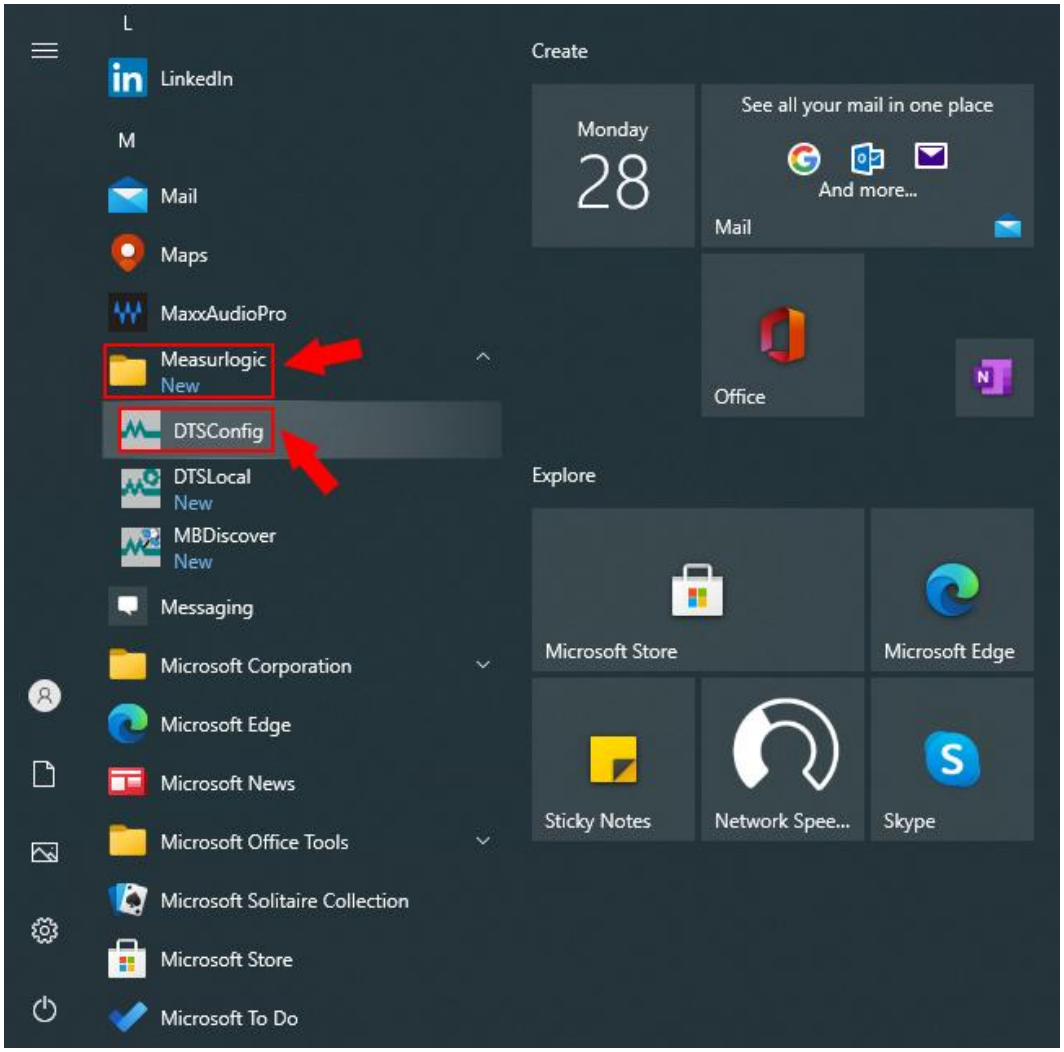
After you have confirmed that the new devices “USB Serial Port” and “USB Serial Converter” are there, and you have taken note of the COM Port number, you can now close the Device Manager by clicking the “X” in the top right of the window.

Installing USB to RS-485 Drivers

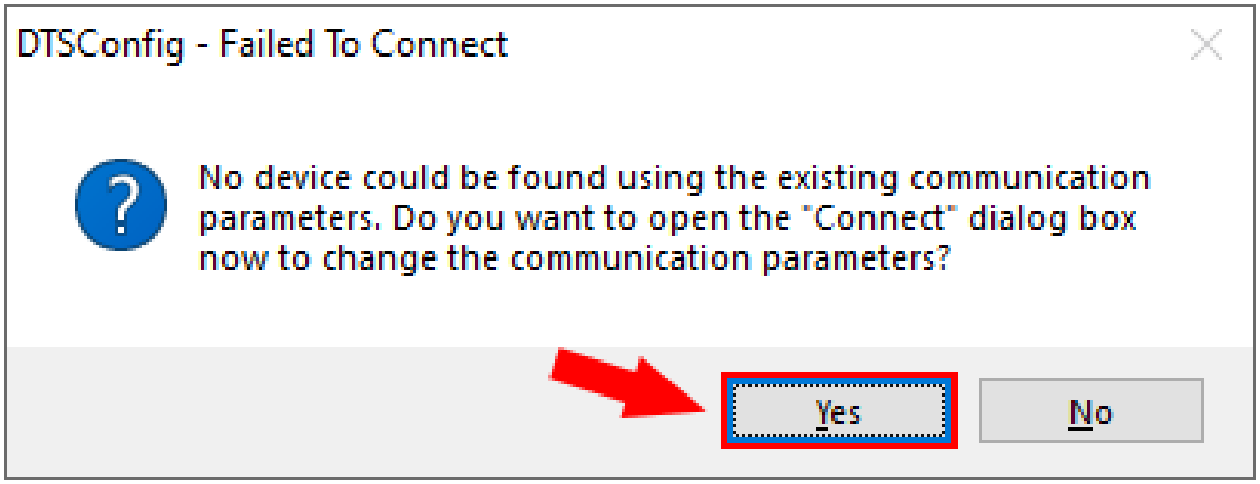


Starting DTS Config

On the left side of this menu where the list of apps is, scroll down until you find a folder called “Measurlogic” and click on it. In this folder will be 3 apps, click on the app called ”DTS Config” to open DTS Config.



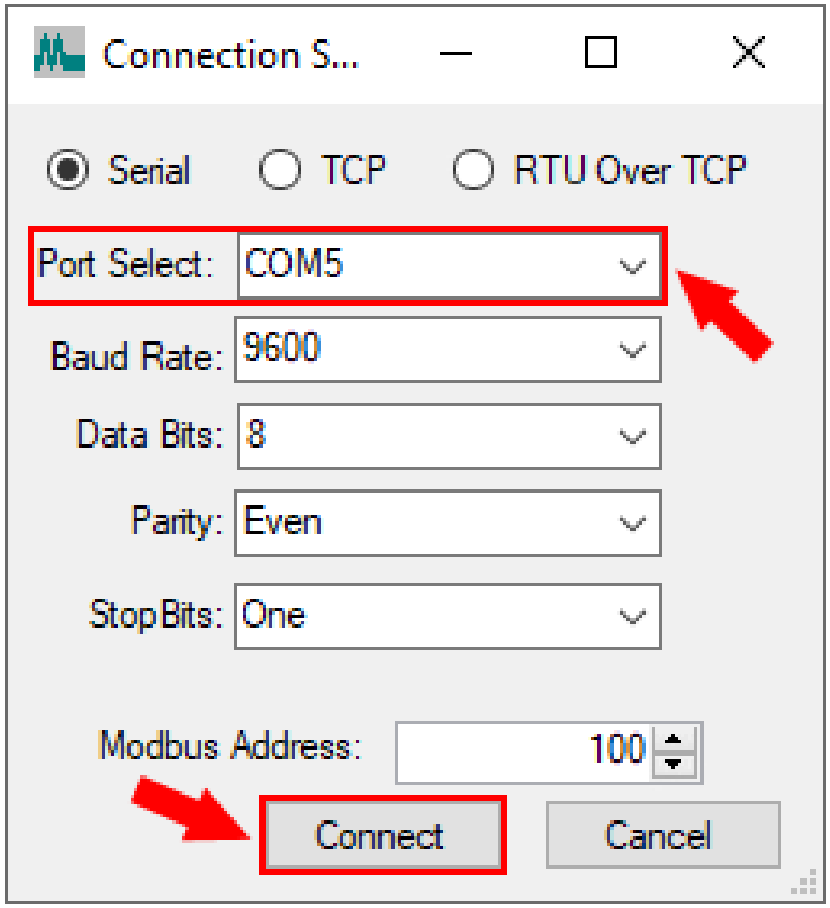
Connecting to the DTS Meter



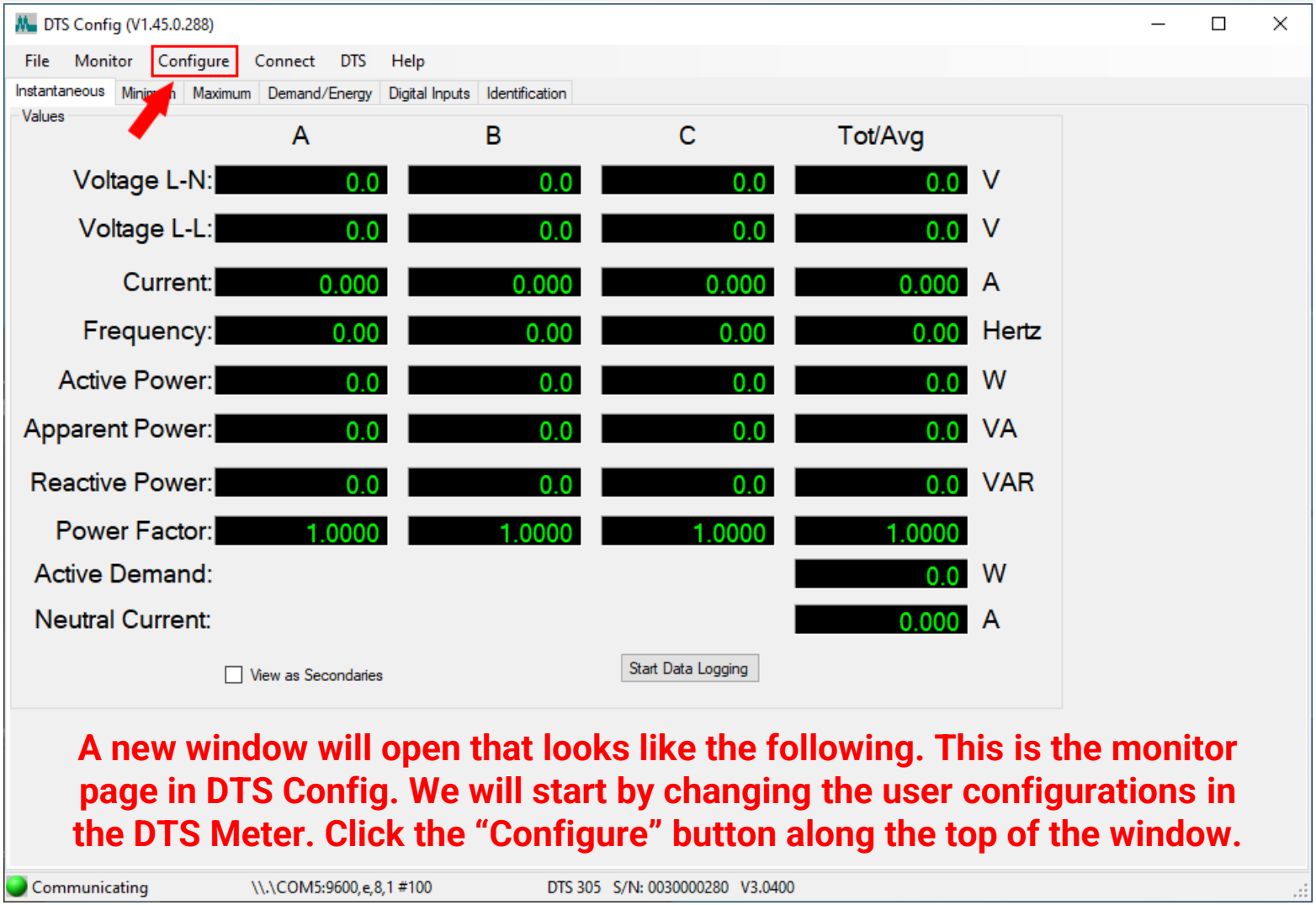
After opening DTS Config the following window will open. Click the “Yes” button.

RS-485 Serial Comms Parameters

A new window will open. In this window look for “Port Select:” and to the right of it click the little arrow to drop down a menu. In this menu look for the COM Port number you noted down earlier (e.g., COM5) and click it. Then click the “Connect” button at the bottom of the window.

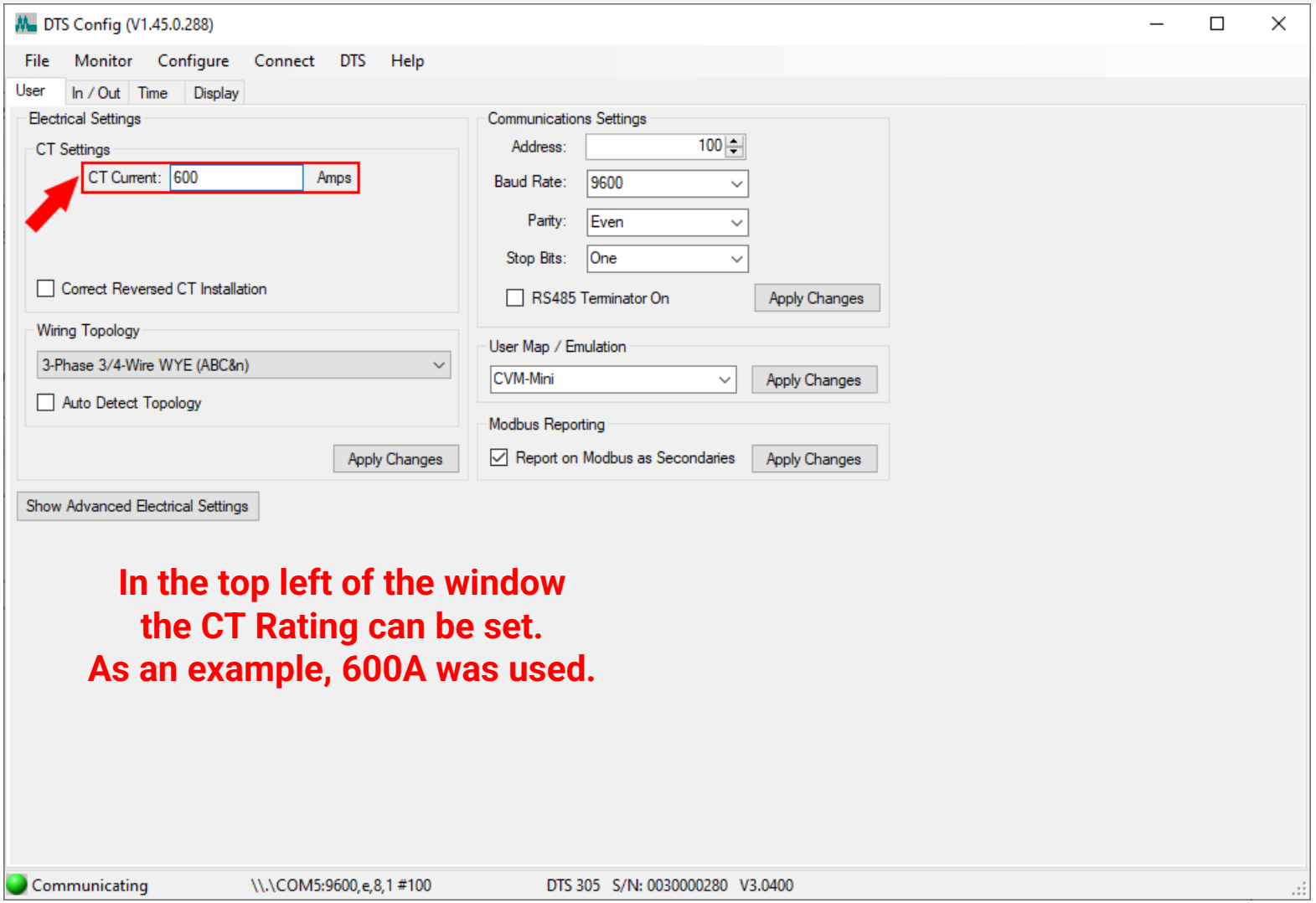


Configuring the DTS Meter



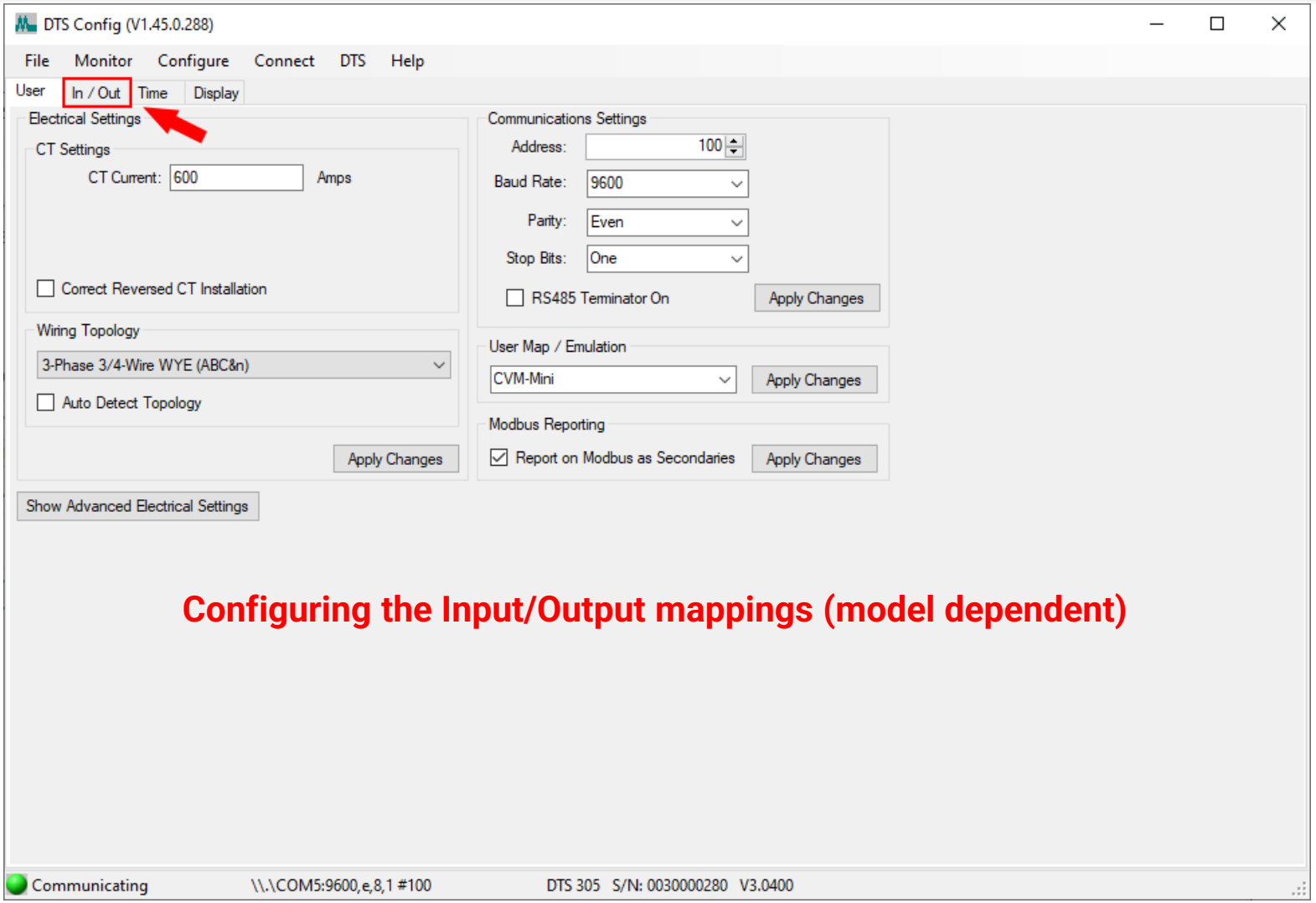
A new window will open that looks like the following. This is the monitor page in DTS Config. We will start by changing the user configurations in the DTS Meter. Click the "Configure" button along the top of the window.

Setting the CT Rating



In the top left of the window
the CT Rating can be set.
As an example, 600A was used.

Setting Input/Output Mappings



Configuring the Input/Output mappings (model dependent)

Setting Input/Output Mappings

The meter model number shows the Input/Output capability

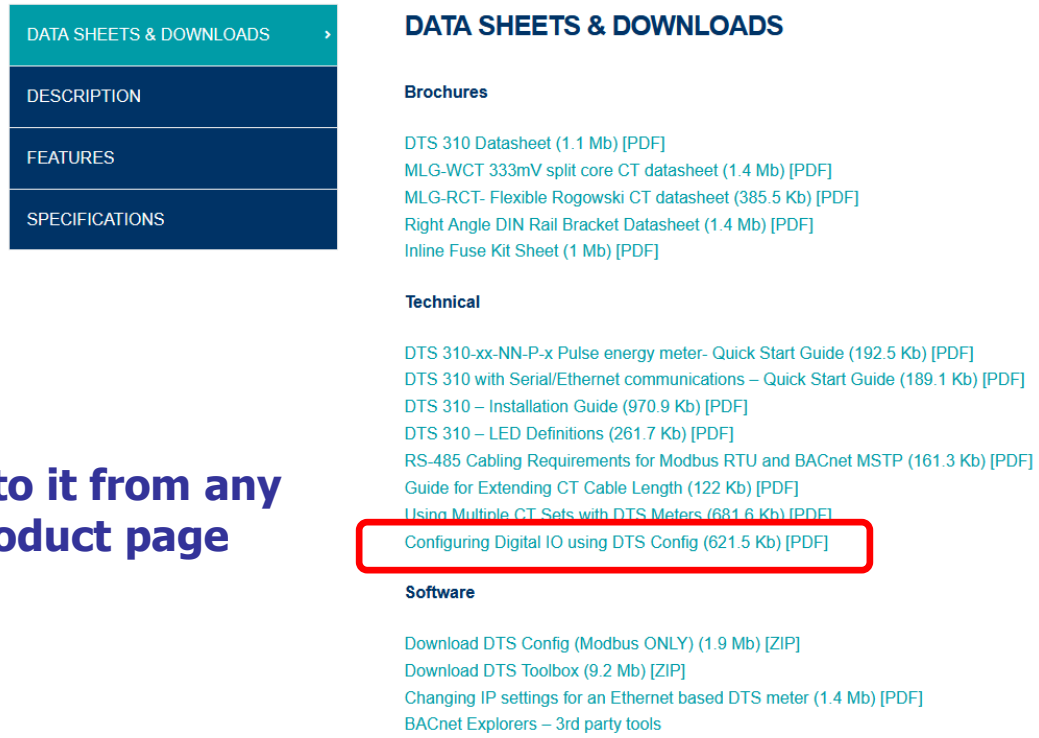
- Please see the meter datasheet for details.
- The most common I/O options are:
  - -P 1 x Digital Output
  - -A 1 x Digital Output and 2 x Digital Inputs
  - -3 3 x Digital Outputs
- Model Number Examples:
  - DTS 310-34-SM-A-4
  - DTS SMX-34-EB-P-N

Setting Input/Output Mappings

Please see the following document on our website

https://www.measurlogic.com/wp-content/uploads/2020/03/DTS-Config-Input-Output-Mapping_R21A.pdf

Or you can link to it from any DTS meter product page



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