Complete TIA Portal configuration :

This is to make the first connexion between TIA Portal and the PLC with an example code (not using ROS2).

Download TIA Portal on Windows 10/11

Create new project

Add new device

Select the device you have (and the good version of it) then click Add.

In the device configuration-General configure the IP address of PC and PLC so they are in the same network.

Try to make an example code (configure IN/OUT in PLC tags and the code in Program blocks-Main)

Then compile the program.

Then hit Go online.

In PG/PC interface: Ethernet Server Adapter

In “Show devices with the same addresses” replace by “Show all compatible devices” and start search. The PLC appears now in the list, click on it and click GoOline.

Click Yes if “Do you want to add the IP address?”

After that go offline (it was just to be sure you can connect to the PLC and hit Download to device and follow the steps. When the program is uploaded, go online and go in run mode.