

Automation Direct Productivity Series

Supported Series: Automation Direct Productivity Series

Website: <https://www.lamonde.com/>

HMI Setting:

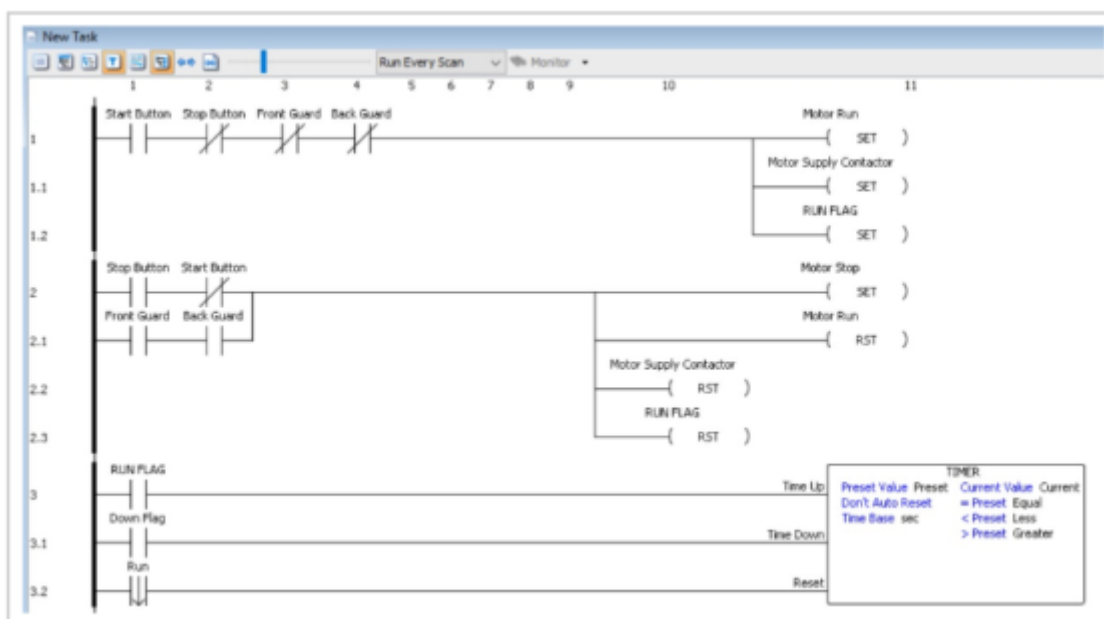
Parameters	Recommended	Options	Notes
PLC type	Automation Direct Productivity Series		
PLC I/F	RS485 2W	RS232 / RS485 2W / Ethernet	
Baud rate	9600		
Data bits	8		
Parity	Even		
Stop bits	1		
PLC sta. no.	1		

Device Address:

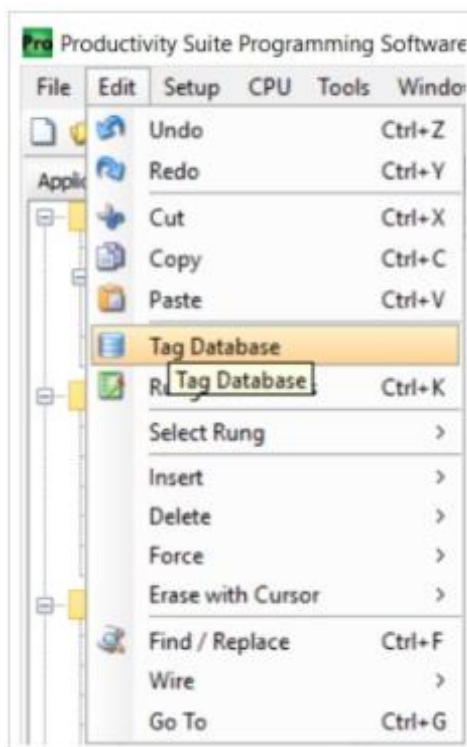
Bit/Word	Device type	Format	Range	Memo
B	0x	DDDDD	1 ~ 65535	Output bit
B	0x_single_Bit	DDDDD	1 ~ 65535	
B	0x_multi_coils	DDDDD	1 ~ 65535	
B	0x_8bits_write	DDDDD	1 ~ 65535	
B	1x	DDDDD	1 ~ 65535	Input bit (read only)
B	1x_single_Bit	DDDDD	1 ~ 65535	
B	3x_bit	DDDDDddd	100 ~ 6553515	Input Register bit(read only)
B	4x_bit	DDDDDddd	100 ~ 6553515	Output Register bit
B	6x_bit	DDDDDddd	100 ~ 6553515	Output Register bit
B	0x_multi_coils	DDDDD	1 ~ 65535	Write multiple coils
W	3x	DDDDD	1 ~ 65535	Input Register
W	4x	DDDDD	1 ~ 65535	Output Register
DW	5x	DDDDD	1 ~ 65535	4x double word swap
W	6x	DDDDD	1 ~ 65535	4x single word write
DW	3x_Double	DDDDD	1 ~ 65535	*Note1
DW	4X_Double	DDDDD	1 ~ 65535	*Note1
W	4x string central europe	DDDDD	1 ~ 65535	Convert the Central Europe ASCII to Unicode.
W	4x string central europe (rev)	DDDDD	1 ~ 65535	

Import Tag:

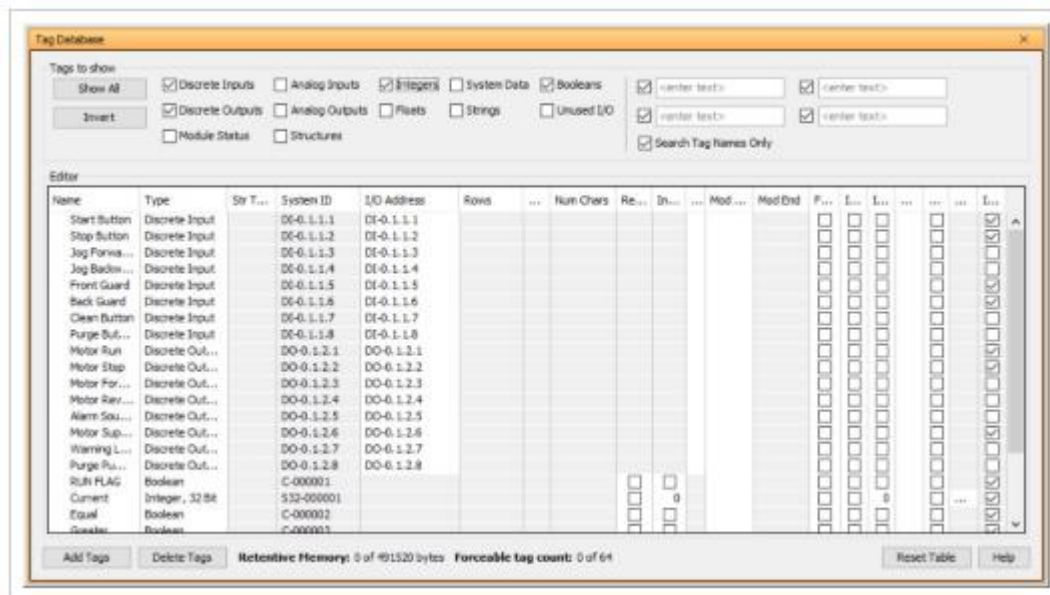
1. First write your Productivity Controller program in Productivity Suite...



2. If you're familiar with Productivity Suite, you no doubt know that you can define tags for your i/o, registers, timer values etc as you go making it a very intuitive controller to use. The Productivity tag database is accessed from the edit menu.

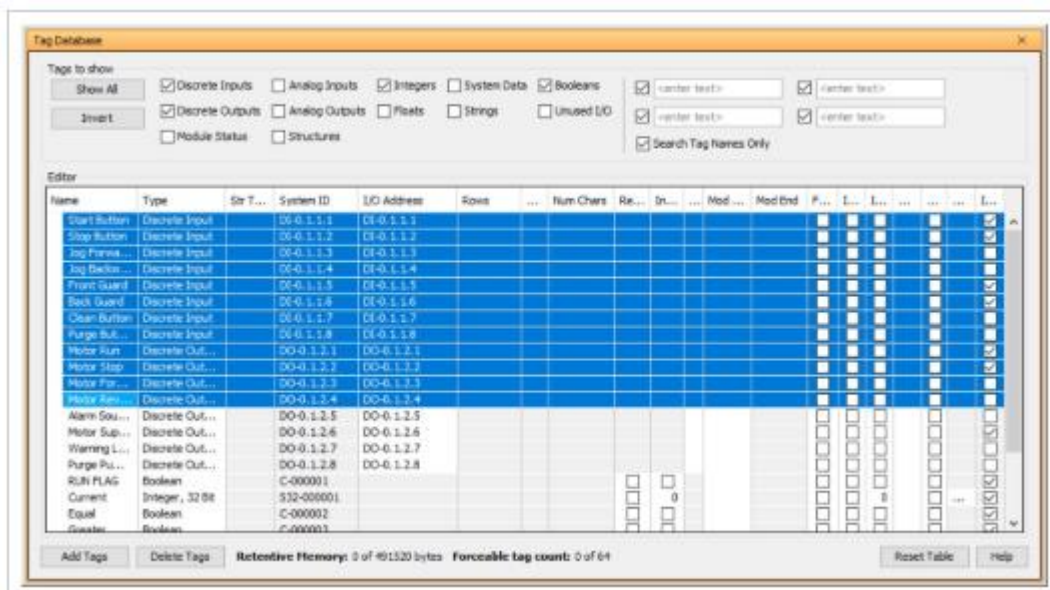


3. In this example, we're only looking at Discrete i/o, Integers & Booleans...



4. You can manually assign Modbus addresses to the required elements...

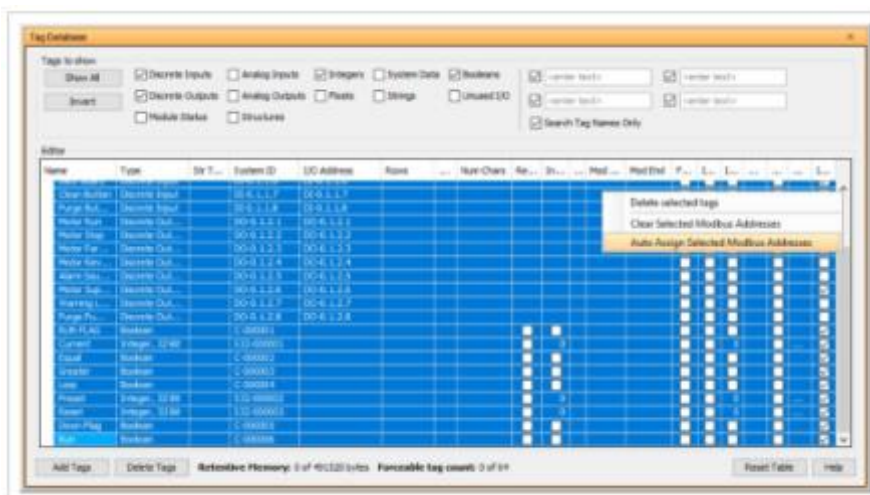
Or you can select them all and Auto-assign them. Select the first line, hold down "Shift" and use the down arrow to select...



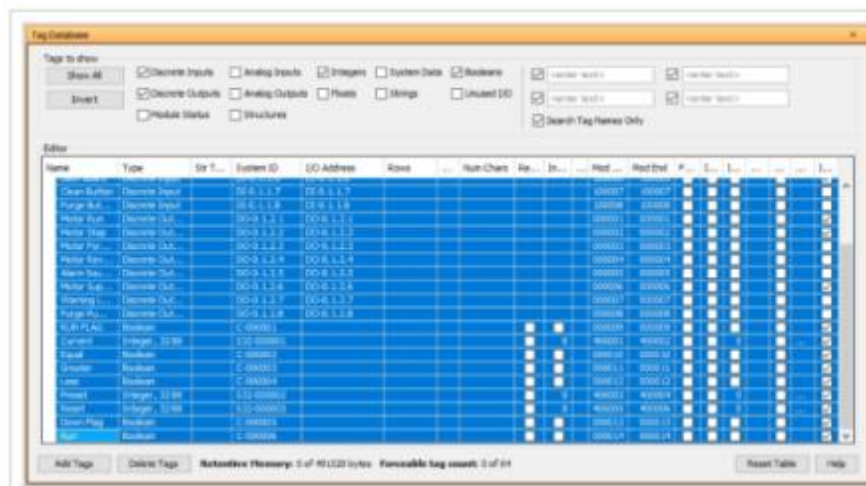
5. To quickly select all a useful shortcut is to use CTRL, Shift and down arrow.... or use "CTRL" + "A".



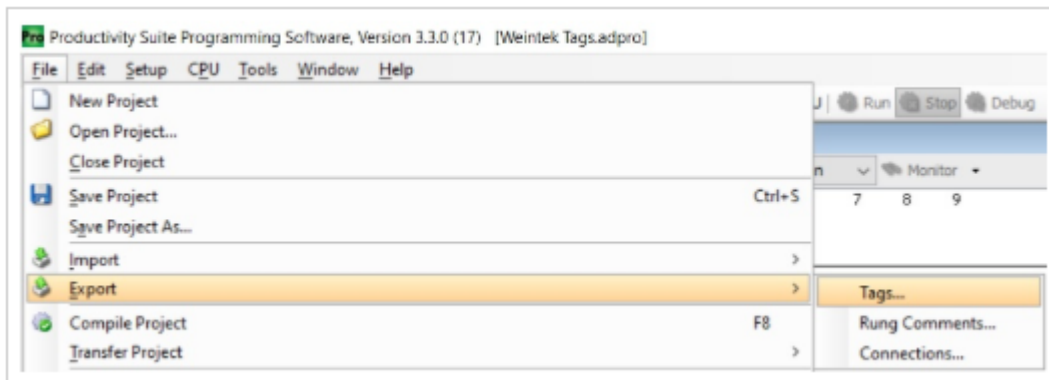
6. To Auto Assign Modbus addresses, right click in the "Mod Start" column and select "Auto Assign Selected Modbus Addresses".



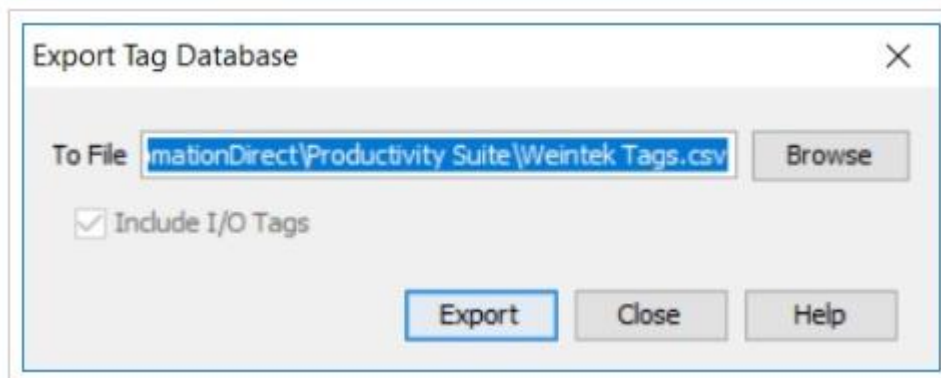
7. Populated Tag address table...



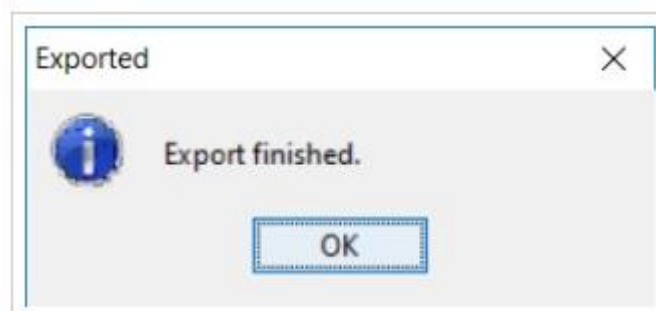
8. To use these in a Weintek HMI project, first export the Tags...



9. Browse to your chosen location and assign a name. Click Export...



10. Success message:



11. Using Productivity Series Tags in Weintek HMI...

Select the Automation Direct Productivity Series driver and set up Communication parameters – RS232, RS485 or Ethernet.



Device Settings

Name : Automation Direct Productivity Series

HMI Device

Location : Local

* Select Local for a device connected to this HMI, or Remote for a device connected through another HMI.

Device type : Automation Direct Productivity Series

Device ID : 559, V.2.30, MODBUS_RTU.v30

DF : Ethernet

* Support off-line simulation on HMI (use U8-12358)

IP : 192.168.1.100, Port=502

Use UDP (User Datagram Protocol)

Device default station no. : 1

Default station no. use station no. variable

Use broadcast command

Interval of block pack (words) : 5

Max. read-command size (words) : 120

Max. write-command size (words) : 120

12. Click "Import Tags..."



System Parameter Settings

Calendar Data Network Printer/Backup Server Time Sync./DST e-Mail Recipe Database

Device Model General System Setting Remote Security Extended Memory

Device list: [What's my IP?](#)

Name	Location	Device Type	Interface	IP Protocol	Station No.	
Local HMI	Local HMI	Local	MT6050C (480 x 272)	-	0	
Local D...	Autom...	Local	Automation Direct P...	Ethernet ...	TCP/IP	1

New Device... Delete Settings...

Import Tags...

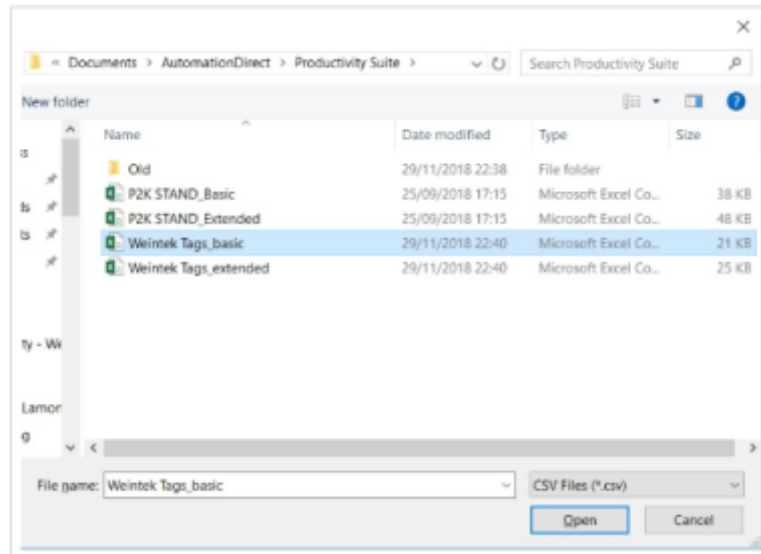
Project description:

SCADA software can indirectly access device data via MODBUS TCP/IP Server on HMI. (Add a MODBUS TCP/IP Server first and enable [MODBUS TCP/IP Gateway].)

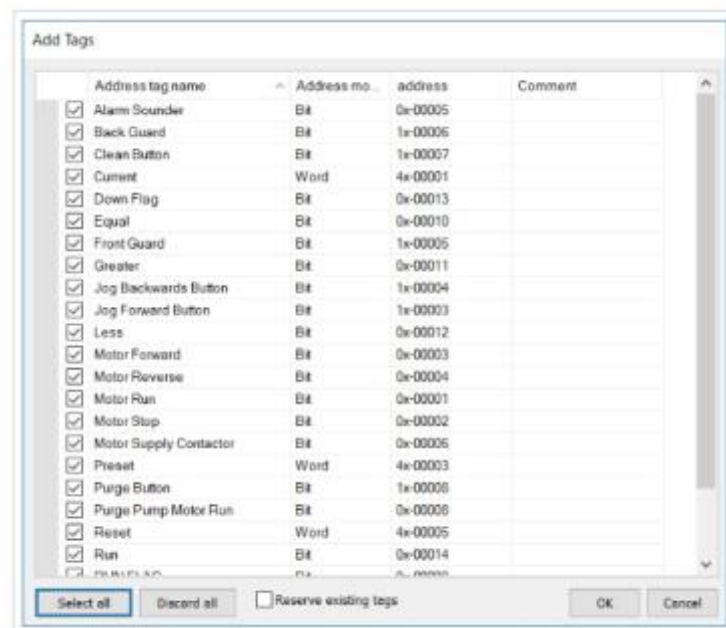
Address Mapping Table

PLC HMI SCADA

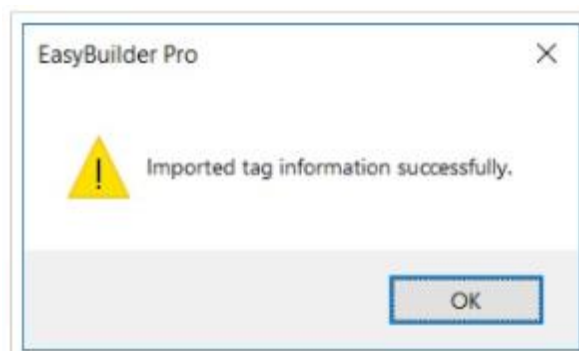
13. Browse to the location of your tag csv export. Select & Open:



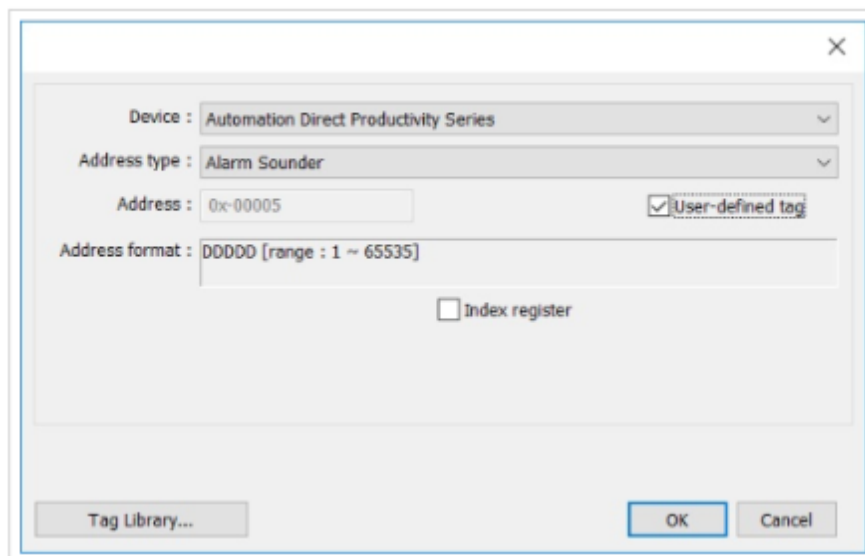
14. Either "Select All" or cherry pick the required tags, click "OK"



15. Success message:



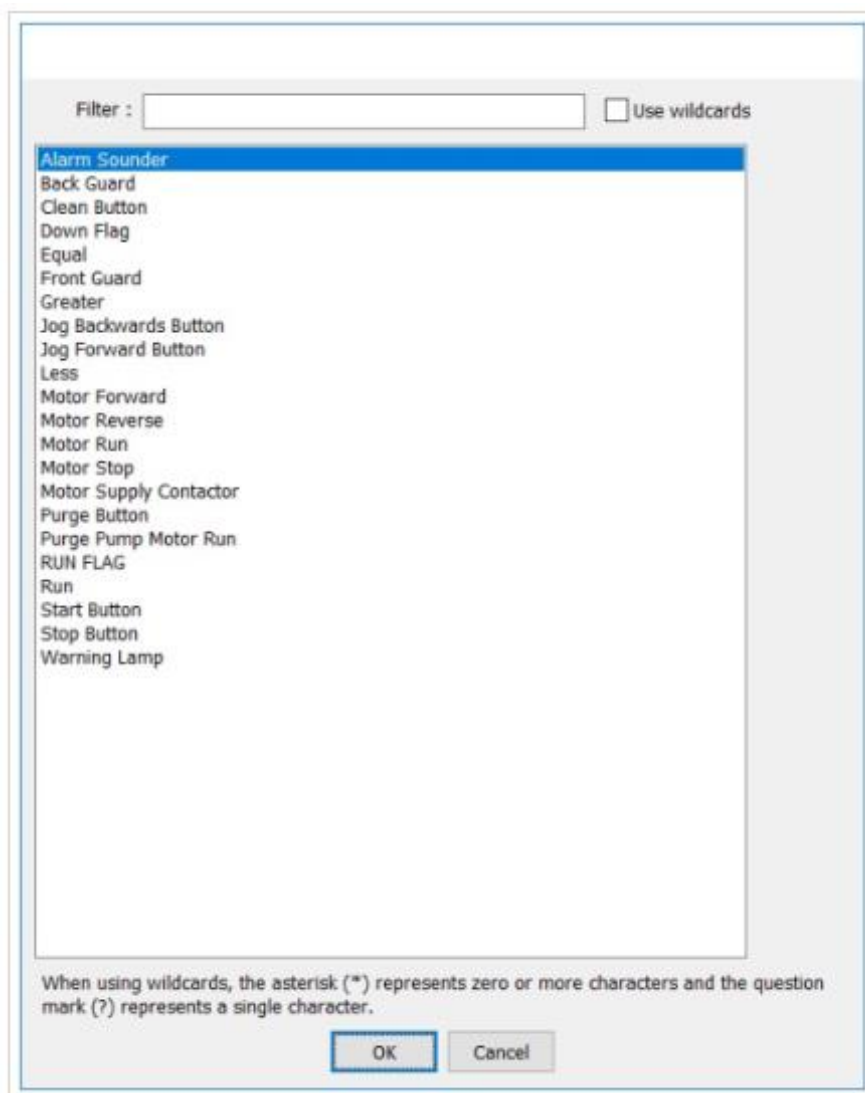
17. To use the imported tags, select the Device and tick “User-defined tag”:



Device : Automation Direct Productivity Series
 Address type : Alarm Sounder
 Address : 0x-00005 User-defined tag
 Address format : DDDDD [range : 1 ~ 65535]
 Index register

Tag Library... OK Cancel

18. The tag can be selected and used.



Filter : Use wildcards

- Alarm Sounder
- Back Guard
- Clean Button
- Down Flag
- Equal
- Front Guard
- Greater
- Jog Backwards Button
- Jog Forward Button
- Less
- Motor Forward
- Motor Reverse
- Motor Run
- Motor Stop
- Motor Supply Contactor
- Purge Button
- Purge Pump Motor Run
- RUN FLAG
- Run
- Start Button
- Stop Button
- Warning Lamp

When using wildcards, the asterisk (*) represents zero or more characters and the question mark (?) represents a single character.

OK Cancel

Wiring Diagram:

Diagram 1

RS-232

The serial port pin assignments may vary between HMI models, please click the following link for more information.

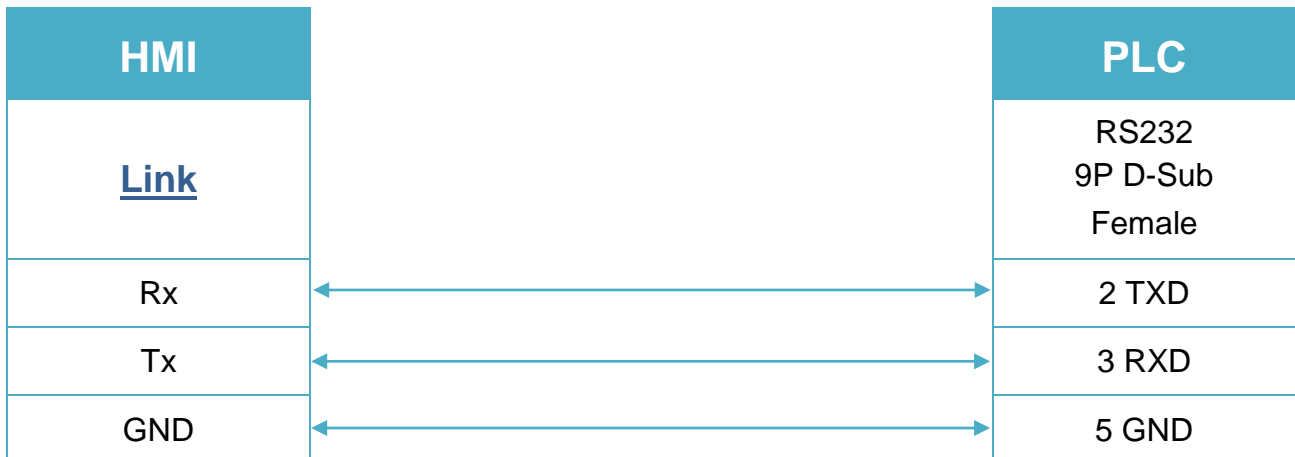


Diagram 2

RS-485 2W

The serial port pin assignments may vary between HMI models, please click the following link for more information.



Diagram 3

Ethernet cable:

