

## Automation Direct Productivity Series

Supported Series: Automation Direct Productivity Series

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

### HMI Setting:

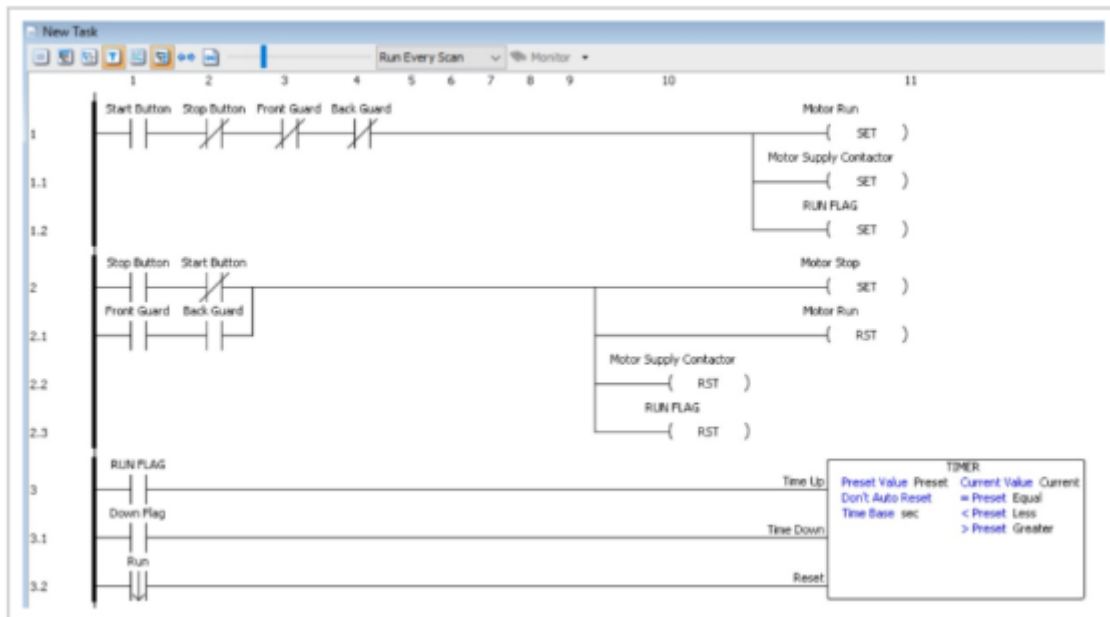
Parameters	Recommended	Options	Notes
<b>PLC type</b>	Automation Direct Productivity Series		
<b>PLC I/F</b>	RS485 2W	RS232 / RS485 2W / Ethernet	
<b>Baud rate</b>	9600		
<b>Data bits</b>	8		
<b>Parity</b>	Even		
<b>Stop bits</b>	1		
<b>PLC sta. no.</b>	1		

### Device Address:

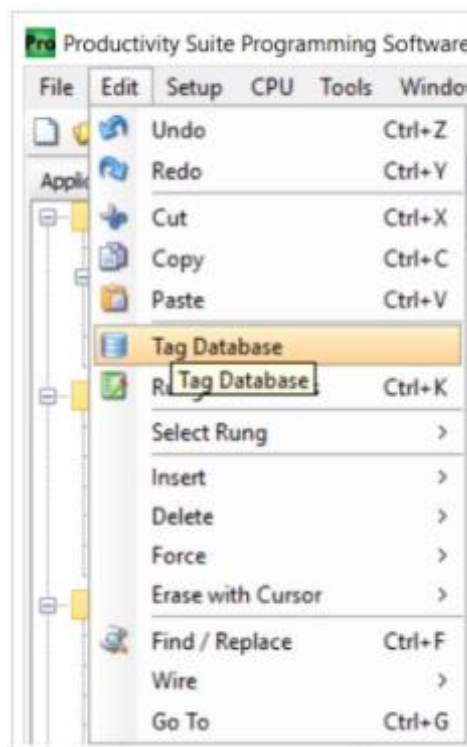
Bit/Word	Device type	Format	Range	Memo
B	0x	DDDDD	1 ~ 65535	Output bit
B	0x_single_Bit	DDDDD	1 ~ 65535	
B	0x_multi_coils	DDDDD	1 ~ 65535	
B	0x_8bits_write	DDDDD	1 ~ 65535	
B	1x	DDDDD	1 ~ 65535	Input bit (read only)
B	1x_single_Bit	DDDDD	1 ~ 65535	
B	3x_bit	DDDDDddd	100 ~ 6553515	Input Register bit(read 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:

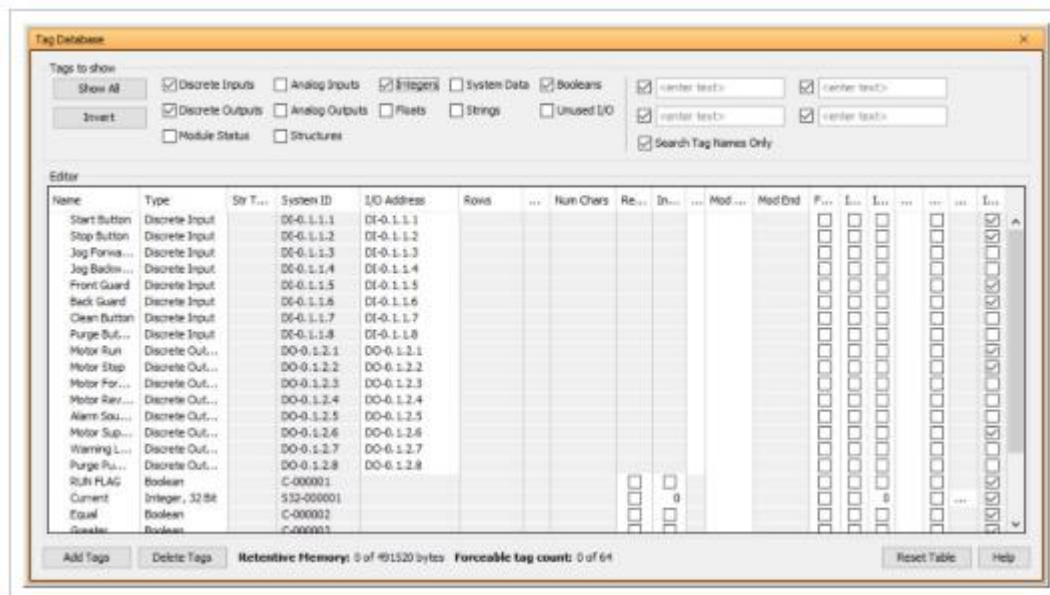
1. First write your Productivity Controller program in Productivity Suite...



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.

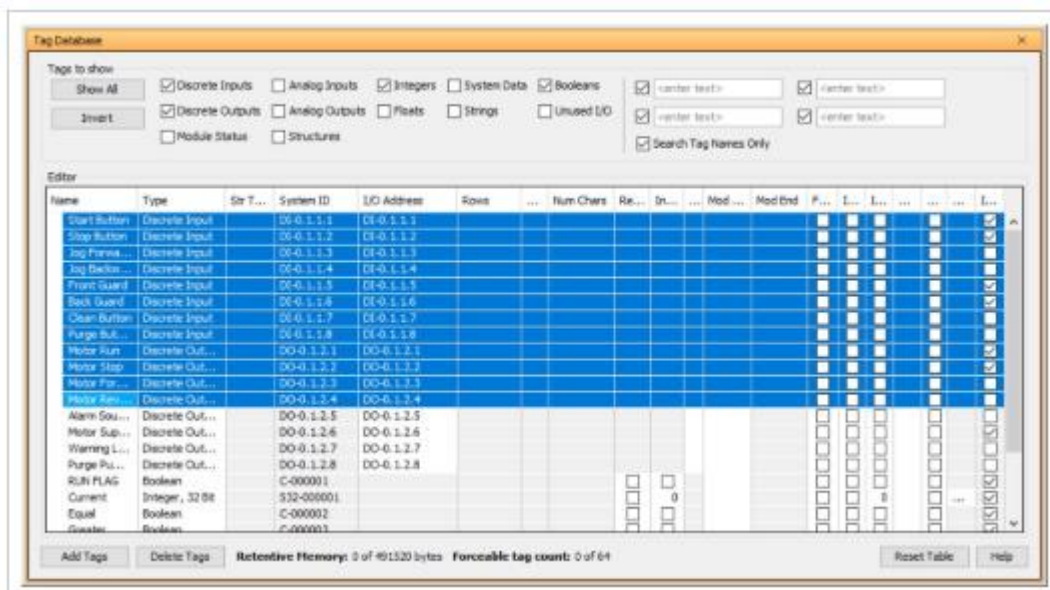


3. In this example, we're only looking at Discrete i/o, Integers & Booleans...



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

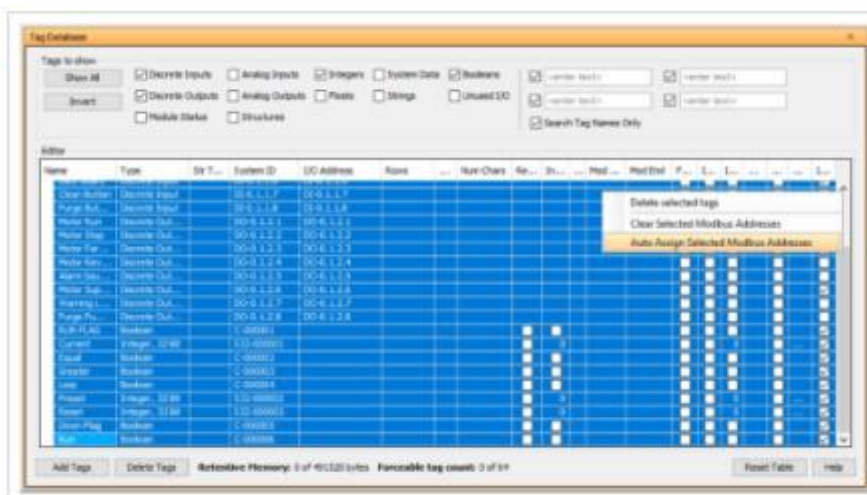
Or you can select them all and Auto-assign them. Select the first line, hold down "Shift" and use the down arrow to select...



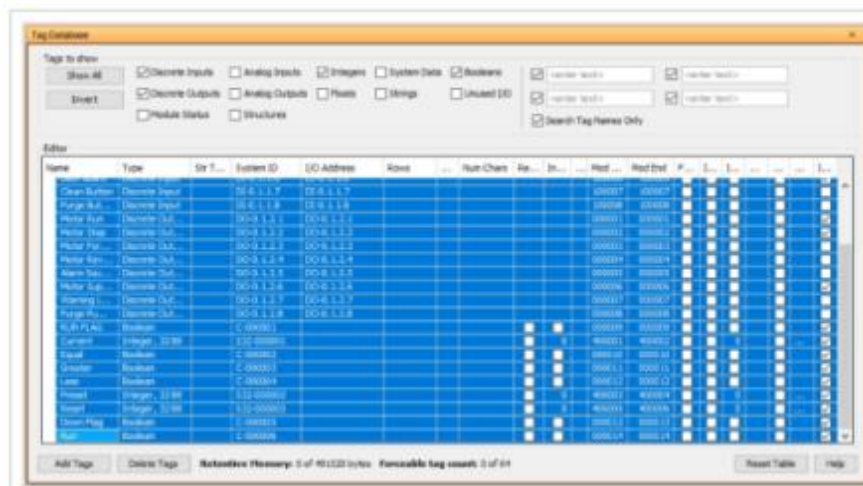
5. To quickly select all a useful shortcut is to use CTRL, Shift and down arrow.... or use “CTRL” + “A”.



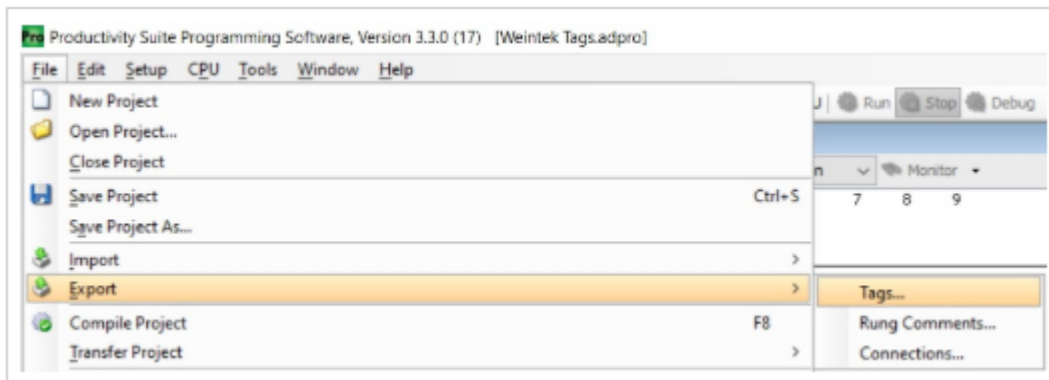
6. To Auto Assign Modbus addresses, right click in the “Mod Start” column and select “Auto Assign Selected Modbus Addresses”.



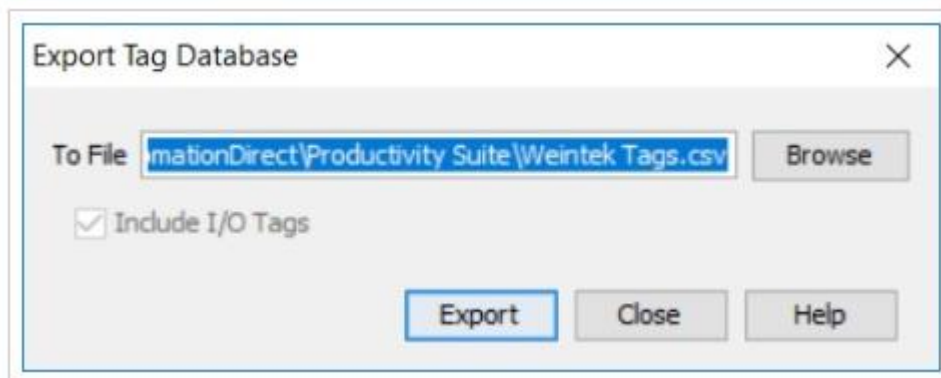
7. Populated Tag address table...



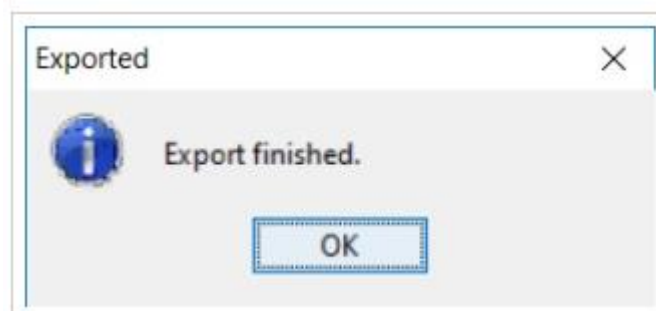
8. To use these in a Weintek HMI project, first export the Tags...



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 [Settings...](#)

\* 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 [Open Device Connection Guide...](#)

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

IP : 192.168.1.100, Port=502 [Settings...](#)

Use UDP (User Datagram Protocol)

Device default station no. : 1

Default station no. use station no. variable

Use broadcast command

[How to designate the station no. in object's address?..](#)

Interval of block pack (words) : 5 [Address Range Limit...](#)

Max. read-command size (words) : 120 [Data Conversion...](#)

Max. write-command size (words) : 120

OK Cancel

## 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 Resource Security Extended Memory

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

Name	Location	Device Type	Interface	IP Protocol	Station No.	
Local HMI	Local HMI	Local	MT6050C (400 x 272)	-	0	
Local D.	Autom...	Local	Automation Direct P...	Ethernet...	TCP/IP	1

New Device... Delete Settings...

**Import Tags...**

Project description:

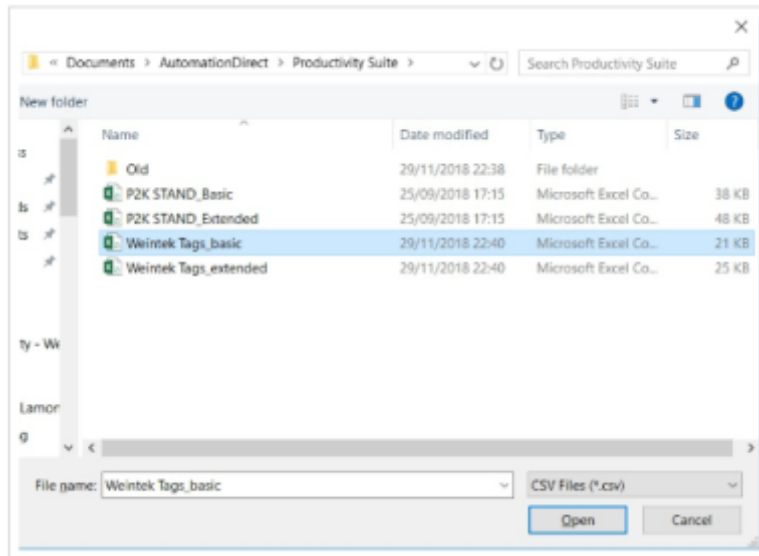
SCADA software can indirectly access device data via MODBUS TCP/IP Server on HMI. (Add a MODBUS TCP/IP Server first and enable [MODBUS TCP/IP Gateway].)



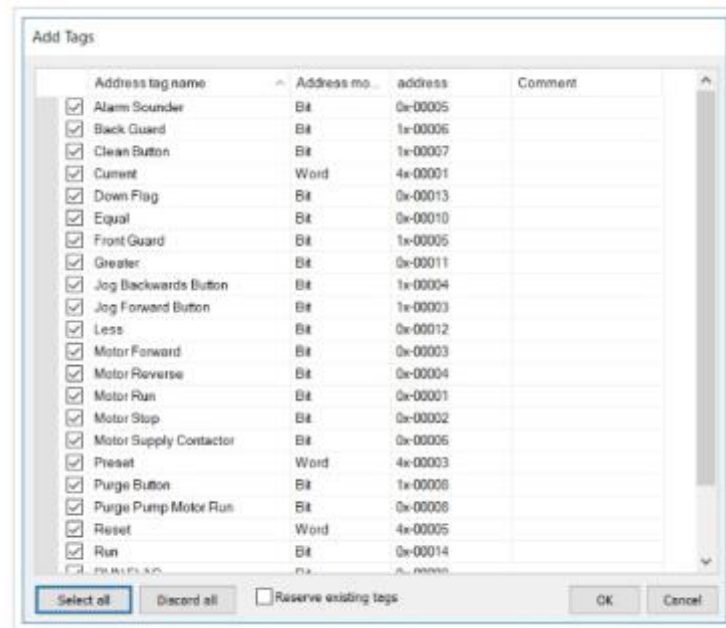
OK Cancel Help



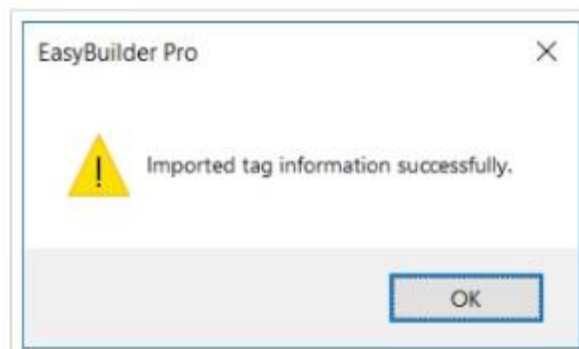
13. Browse to the location of your tag csv export. Select & Open:



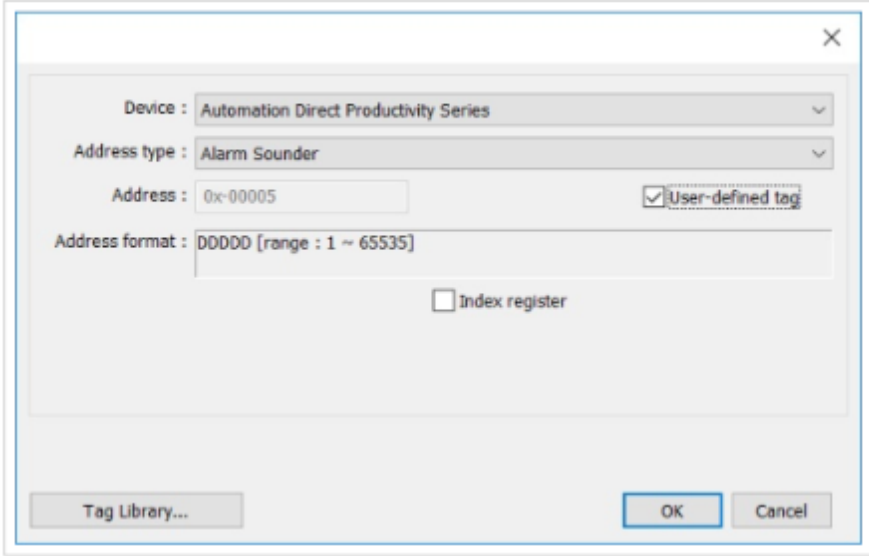
14. Either "Select All" or cherry pick the required tags, click "OK"



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

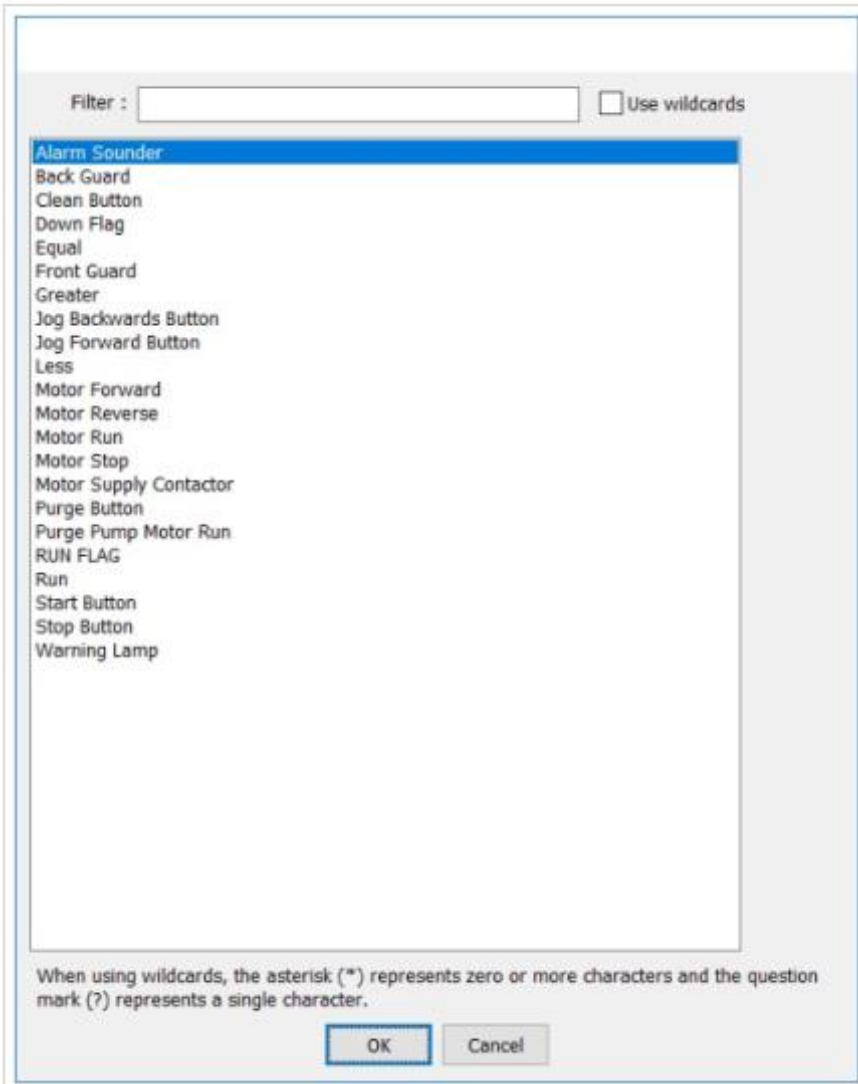
Address : 0x-00005  User-defined tag

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

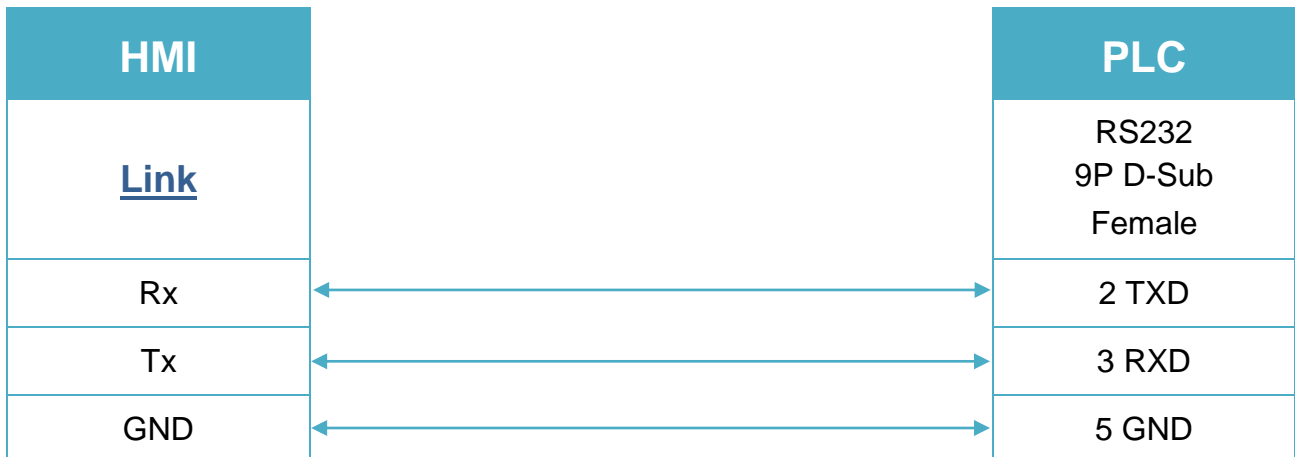


## Wiring Diagram:

### Diagram 1

#### RS-232

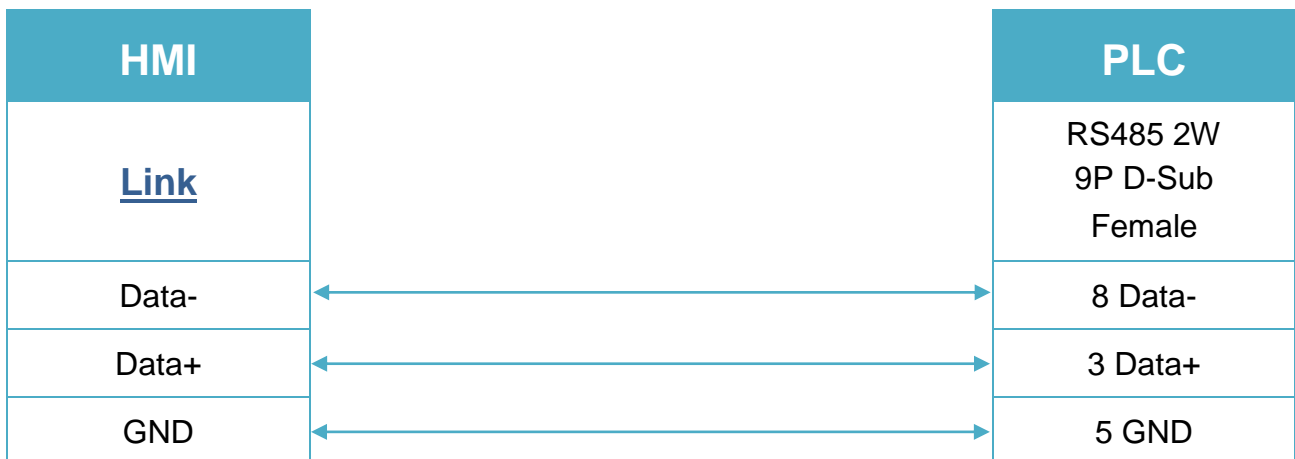
The serial port pin assignments may vary between HMI models, please click the following link for more information.



### 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:

