Beckhoff ADS/AMS (Ethernet)
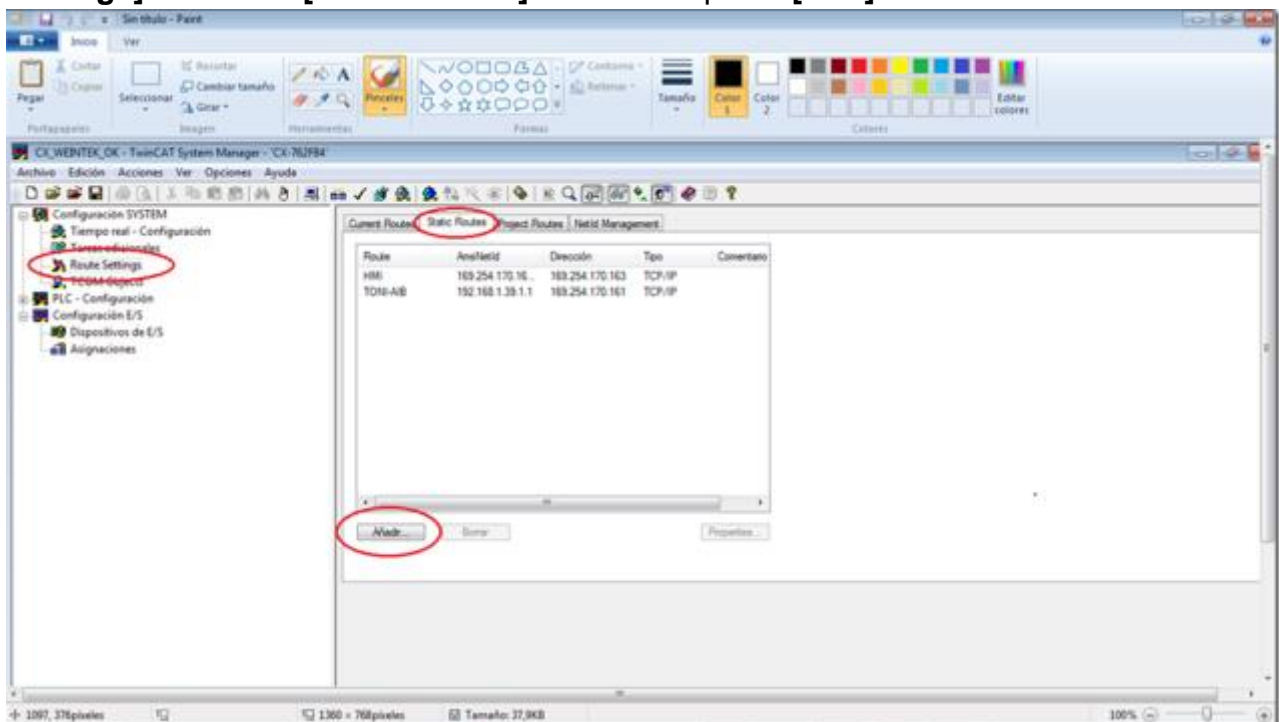
Supported Series: Twincat

HMI Settings:

Parameters	Recommended	Options	Notes
PLC type	Beckhoff ADS/AMS (Ethernet)		
PLC I/F	Ethernet		
Port no.	48898		
ADS port	801	801, 811, 821, 831	
PLC sta. no.	1		

PLC Settings:

TwinCAT System Manager, being connected to the PLC you have to click on **[Route Settings]** and in the **[Static Routes]** subwindow press **[Add]**.

A new window will appear, in which you have to enter the following data:

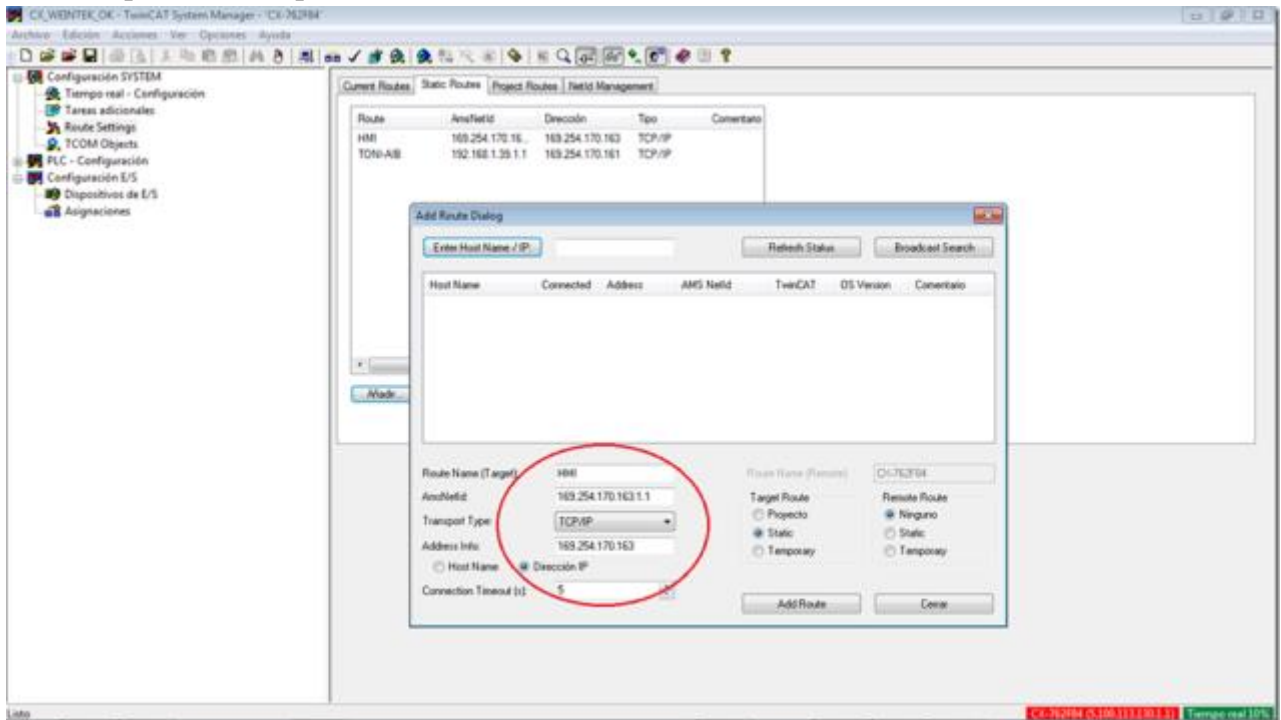Route Name: HMI o TP, or the name you want, it has no greater importance.
AMSNetID: La IP del HMI followed by (.1.1), as an example (169.254.170.163.1.1)
Transport Type: TCP/IP

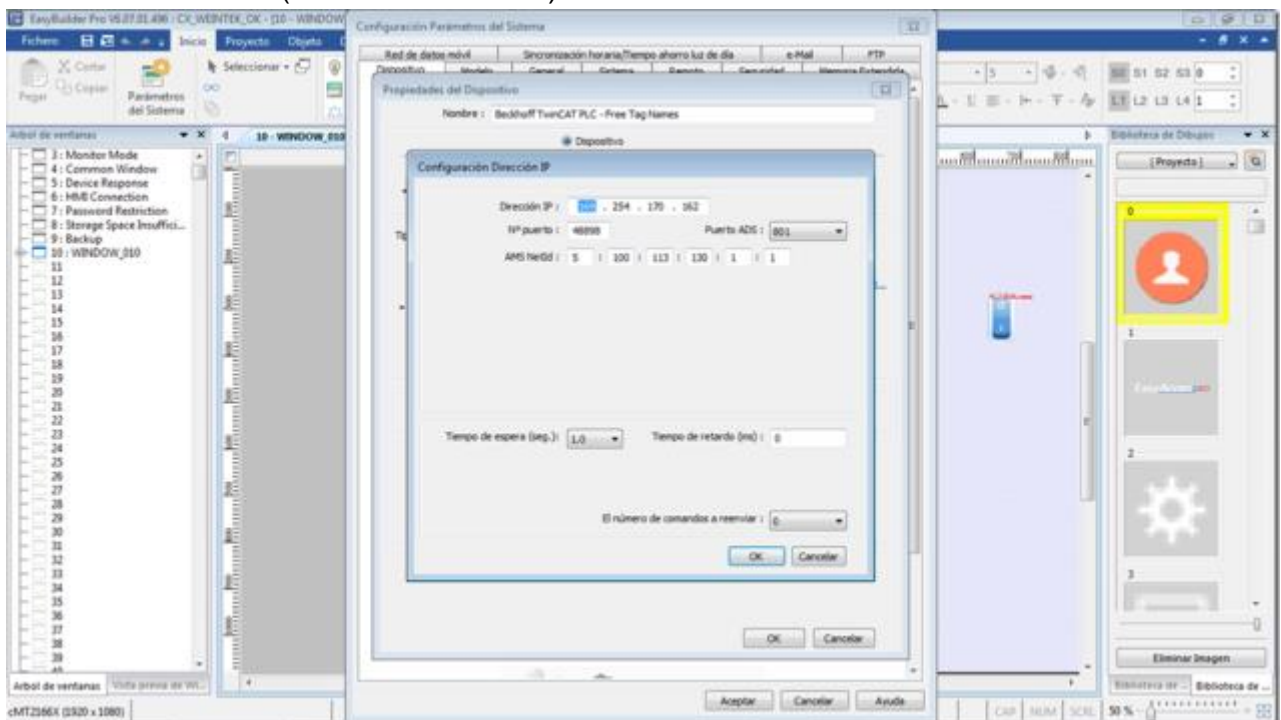Adress Info: The IP of the HMI, following the example (169.254.170.163)
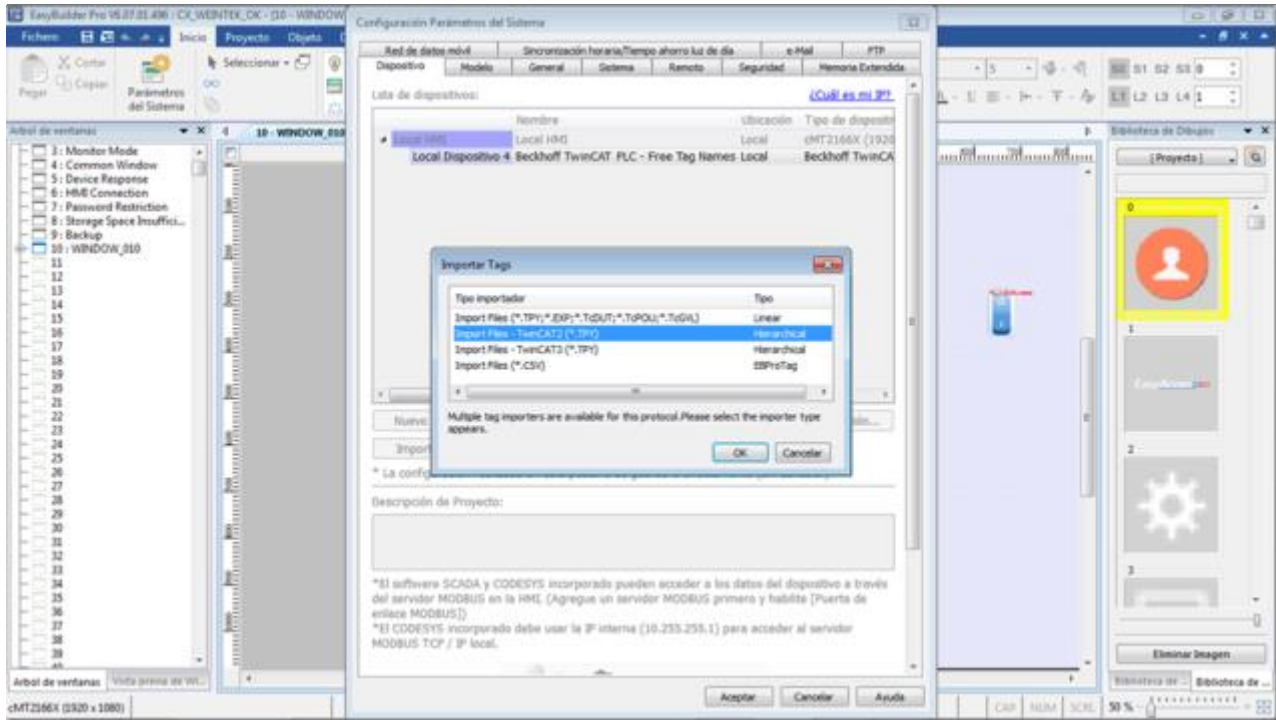
Check Box: IP address

Pulsate **[Add Route]**

Configure in the EasyBuilder Pro the communication with the PLC with the IP and the AMS NetID of the PLC and having imported the Tags, in this case the PLC has the IP (169.254.170.162)

and its AMS NetID (5:100:113:130:1:1)

Once you verify that everything works OK, in the soft **[TwinCAT System Manager]**, activate the configuration in the PLC by pressing the rubik's cube button or in **[Actions]** > **[Save in record ...]**, if this step is not done, the CONFIGURATION of the PLC is lost, since the parameter of the direction that we have given of the HMI, you have not saved it in persistent memory.
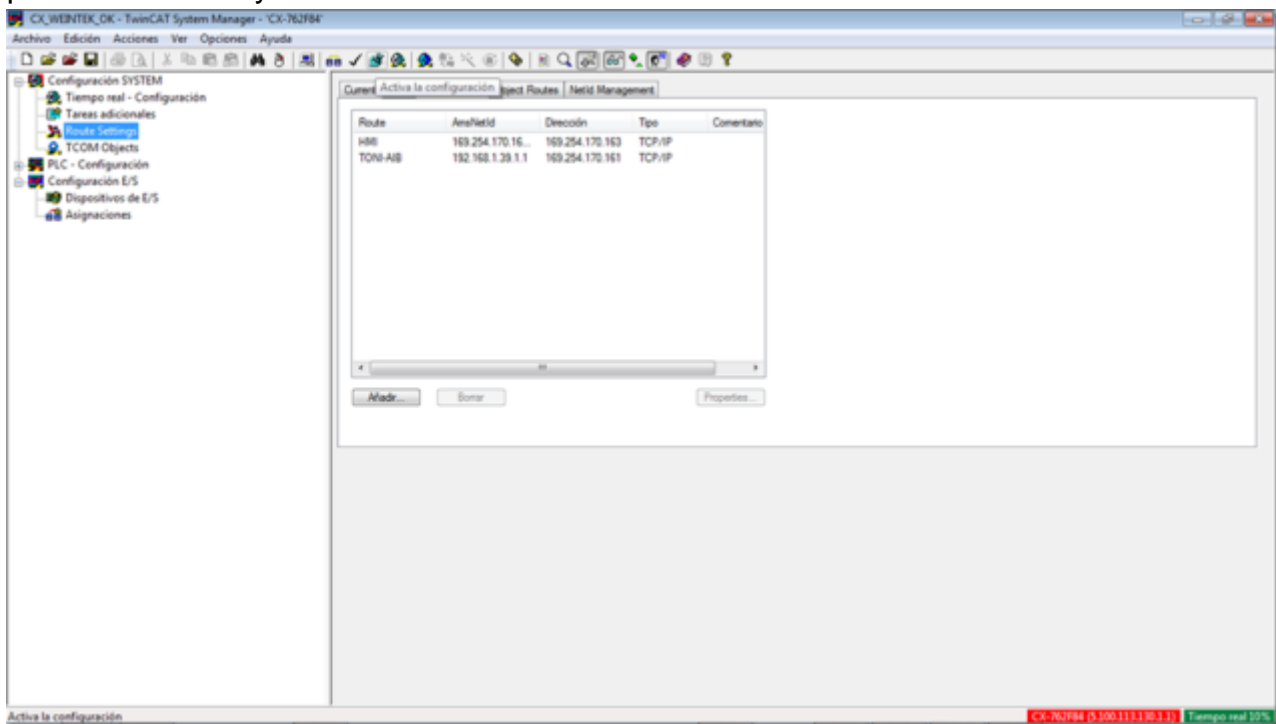
Device address:

Bit/Wor	Device type	Format	Range	Memo
B	IX	DDDDDo	0 ~ 655357	o : Bit no.(0 ~ 7)
B	QX	DDDDDo	0 ~ 655357	o : Bit no.(0 ~ 7)
B	MX	DDDDDo	0 ~ 655357	o : Bit no.(0 ~ 7)
W	IW	DDDDD	0 ~ 65535	
W	QW	DDDDD	0 ~ 65535	
W	MW	DDDDD	0 ~ 65535	
DW	ID	DDDDD	0 ~ 65535	
DW	QD	DDDDD	0 ~ 65535	
DW	MD	DDDDD	0 ~ 65535	

Support Device Type:

Data type	EasyBuilder data format	Memo
Bool	bit	
Word	16-bit BCD, Hex, Binary, Unsigned	16-bit
Int	16-bit BCD, Hex, Binary, Signed	16-bit
UInt	16-bit BCD, Hex, Binary, Unsigned	16-bit
DWord	32-bit BCD, Hex, Binary, Unsigned	32-bit
DInt	32-bit BCD, Hex, Binary, Signed	32-bit
Real	32-bit Float	32-bit
UDInt	32-bit BCD, Hex, Binary, Unsigned	32-bit

Wiring Diagram:

Ethernet cable: