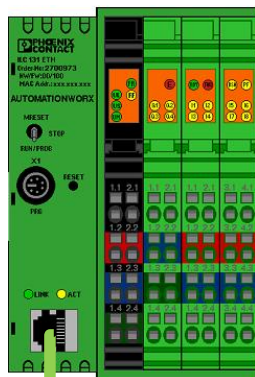


Guia de configuração de comunicação ILC 131 ETH e IHM WEINTEK via Modbus TCP/IP



Client



Server

Configuração do Drive no Programa Easy Builder Pro



WEINTEK

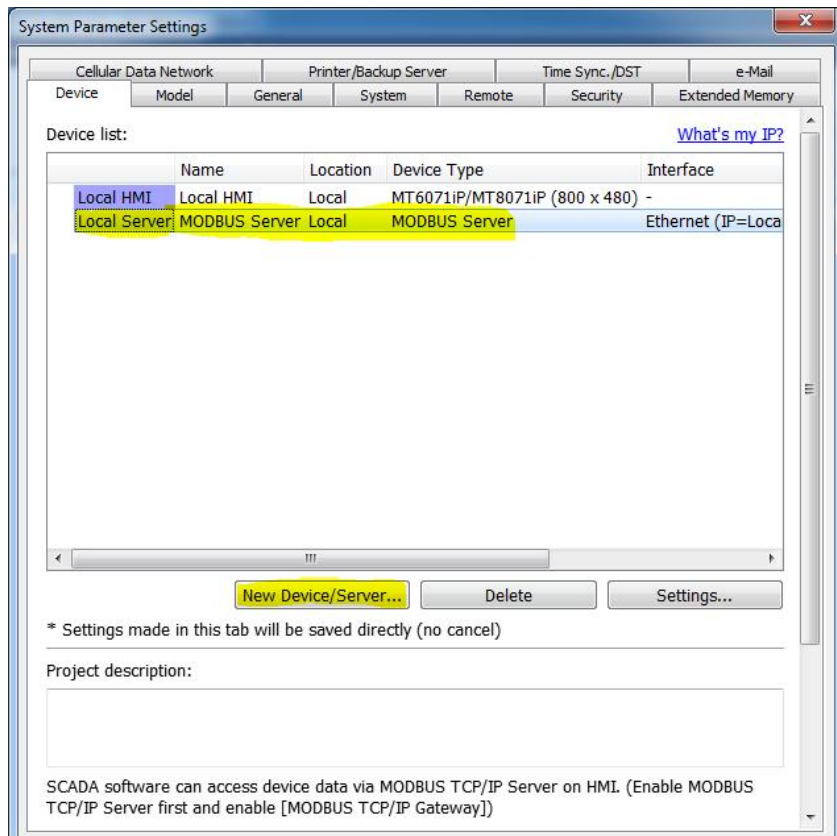
EasyBuilder Pro

Version 6.04.01
Weintek HMI Configuration Software

Loading system pictures (1%) : System Button - Flat.flbx...

The advertisement features a blurred industrial background. In the foreground, a laptop displays a complex wiring diagram, a tablet shows a control panel interface, and two industrial modules are positioned between them. The modules are silver with various ports (Ethernet, RS-485, RS-232) and a green terminal block.

Configuração do Drive no Programa Easy Builder Pro

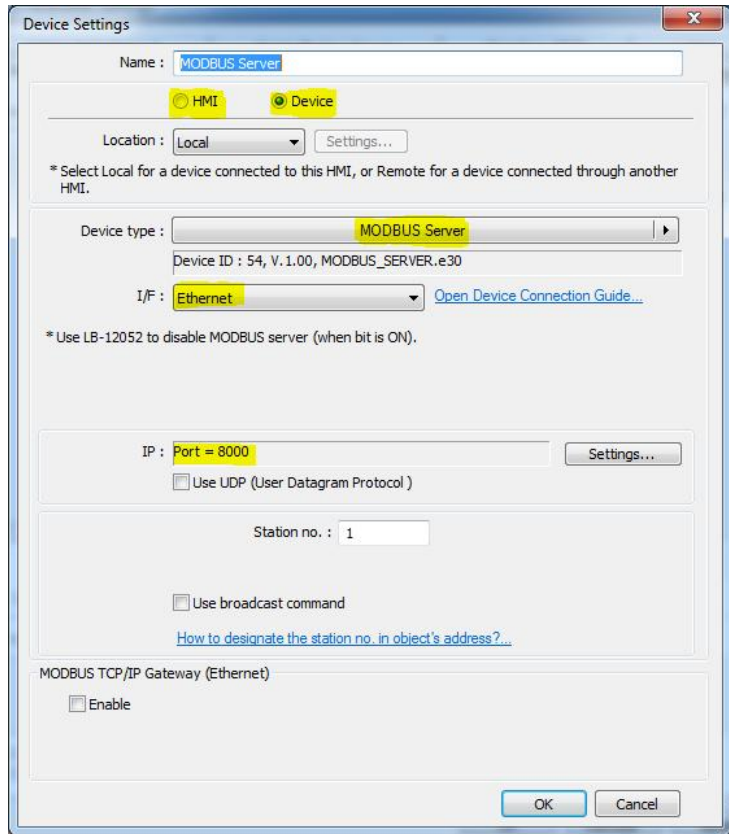


Para os testes, foi utilizada a configuração como "Device" "Local", pois a comunicação foi simulada em PC;

O IP configurado no PC foi 192.168.0.50

Quando a comunicação for com IHM a configuração deve ser "HMI" "Remote";

Configuração do Drive no Programa Easy Builder Pro



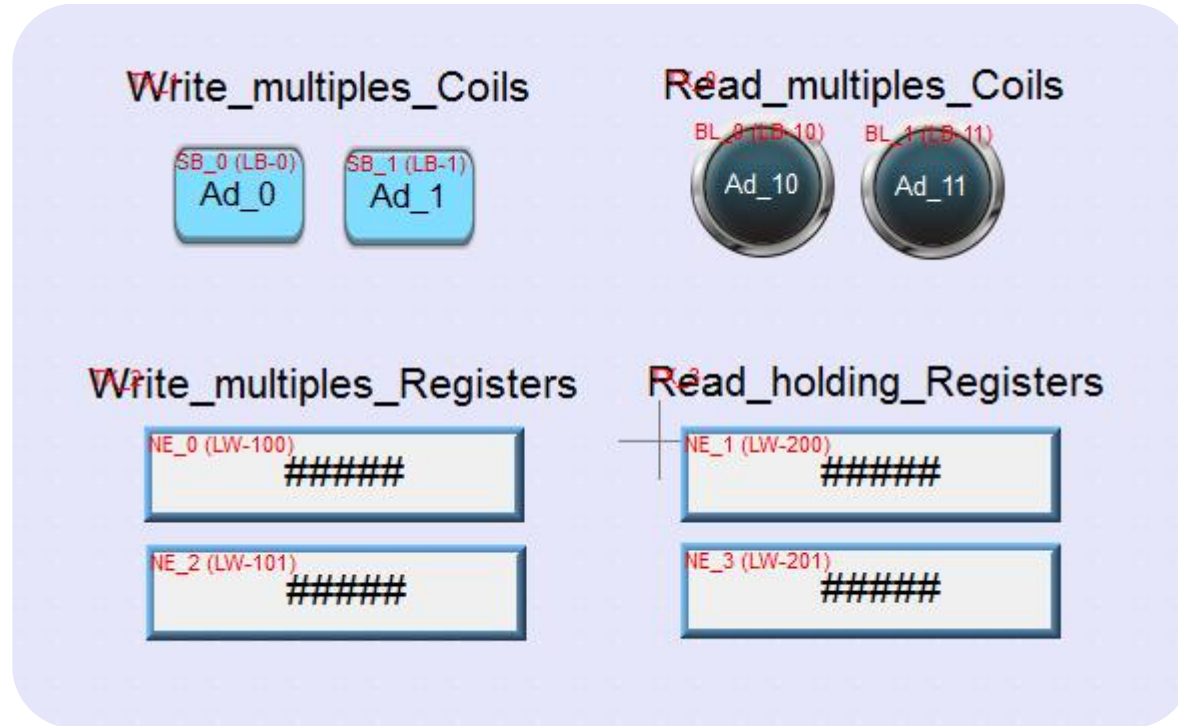
Observe as configurações grifadas ao lado:

A configuração define a IHM como server(escravo) e o CLP como Client(mestre);

Para os testes, foi utilizada a configuração como “Device” “Local”, pois a comunicação foi simulada em PC;

Quando a comunicação for com IHM a configuração deve ser “HMI” “Remote”;

Configuração de Objetos na Tela da IHM



Configuração de Botão Toggle

The image displays two HMI panels. The left panel, titled "Write multiples Coils", features two blue rectangular buttons labeled "Ad_0" and "Ad_1". Above "Ad_0" is the text "SB_0 (LB-0)" and above "Ad_1" is "SB_1 (LB-1)". The right panel, titled "Read multiples Coils", features two circular buttons labeled "Ad_10" and "Ad_11". Above "Ad_10" is the text "BL_0 (LB-10)" and above "Ad_11" is "BL_1 (LB-11)".

Overlaid on the bottom is a dialog box titled "Set Bit Object's Properties". It has tabs for "General", "Security", "Shape", "Label", and "Profile". The "General" tab is active. It contains a "Comment" field, a "Write address" section with "Device" set to "Local HMI" and "Address" set to "LB" with a value of "0", and a checkbox for "Write after button is released". The "Attribute" section has "Set style" set to "Toggle".

Configuração de LED

Write_multiples_Coils

SB_0 (LB-0) Ad_0 SB_1 (LB-1) Ad_1

Read_multiples_Coils

BL_0 (LB-10) Ad_10 BL_1 (LB-11) Ad_11

Bit Lamp/Toggle Switch Object's Properties

General | Security | Shape | Label | Profile

Comment : _____

Bit Lamp Toggle Switch

Read address

Device : Local HMI [Settings...]

Address : LB 10

Invert signal

Configuração PC Worx do Drive Modbus TCP/IP

The screenshot displays the PC Worx software interface with three main panels:

- Bus Structure:** Shows a tree view of the system components. The selected device is "# 1 Generic Modbus Device" under the "IHM_WEINTEK_2" node.
- Device Catalog:** Shows a list of device types. The selected device is "Generic Modbus Device Rev. >= 01" under the "Device" folder.
- Device Details:** Shows the configuration parameters for the selected device. The parameters are as follows:

Name	Value
Vendor	Phoenix Contact
Designation	Generic Modbus Device
Functional description	
Device type	Device
Device family	Generic
Order number	
Revision: HW / Master FW (/COP FW)	01
Station Name	Generic_Modbus_18
Device Name	
Module Equipment ID	
MAC Address	
IP Address	192.168.0.50
Subnetmask	255.255.255.0
Default Gateway	
Port	8000
Protocol	TCP
Swap Bytes	No
Connection timeout / UDP timeout	5000 ms
Reconnection interval	2000 ms
Process Data Watchdog Trigger	500 ms
Unit ID	1
Consecutive Number	1

At the bottom of the Device Details panel, there are three tabs: "Modbus-Settings" (selected), "Modbus Register", and "Data Sheet".

Configuração da tabela Modbus

Bus Structure

- IHM_WEINTEK_2
 - ILC 151 ETH 192.168.0.2
 - Resource
 - STD_RES ILC151_44
 - # MODBUS
 - # 1 Generic Modbus Device
 - # INTERBUS 0 . 0
 - Touch Display
 - Unconnected

Device Catalog

- FLM
- FLS
- FP
- Generic
 - Device
 - Generic Axoline Device
 - Generic Modbus Device (Gateway) Rev. >
 - Generic Modbus Device (RTU) Rev. >= 0
 - Generic Modbus Device Rev. >= 01
 - Server

Enter search criteria

All

Device Details

1 Generic Modbus Device \Modbus Register\

	Name	Function Code	Data Type	Number	Data Direction	Address
1	BIT_0_IHM	FC01 (Read Coils)	BIT	1	IN	0
2	BIT_1_IHM	FC01 (Read Coils)	BIT	1	IN	1
3	BIT_10_IHM	FC15 (Force Multiple Coils)	BIT	1	OUT	10
4	BIT_11_IHM	FC15 (Force Multiple Coils)	BIT	1	OUT	11
5	WORD_100_IHM	FC03 (Read Multiple Registers)	WORD	1	IN	100
6	WORD_101_IHM	FC03 (Read Multiple Registers)	WORD	1	IN	101
7	WORD_200_IHM	FC16 (Write Multiple Registers)	WORD	1	OUT	200
8	WORD_201_IHM	FC16 (Write Multiple Registers)	WORD	1	OUT	201

Modbus-Settings Modbus Register Data Sheet

Vincular as Variáveis de Programa as Tags da Tabela Modbus

Process Data Assignment

Symbols/Variables

- STD_CNF : eCLR
 - STD_RES : ILC151_44
 - Default
 - System Variables

IHM_WEINTEK_2

- ILC 151 ETH 192.168.0.2
 - Resource
 - STD_RES ILC151_44
 - # MODBUS
 - # 1 Generic Modbus Device
 - # INTERBUS 0 . 0
 - Touch Display
 - Unconnected

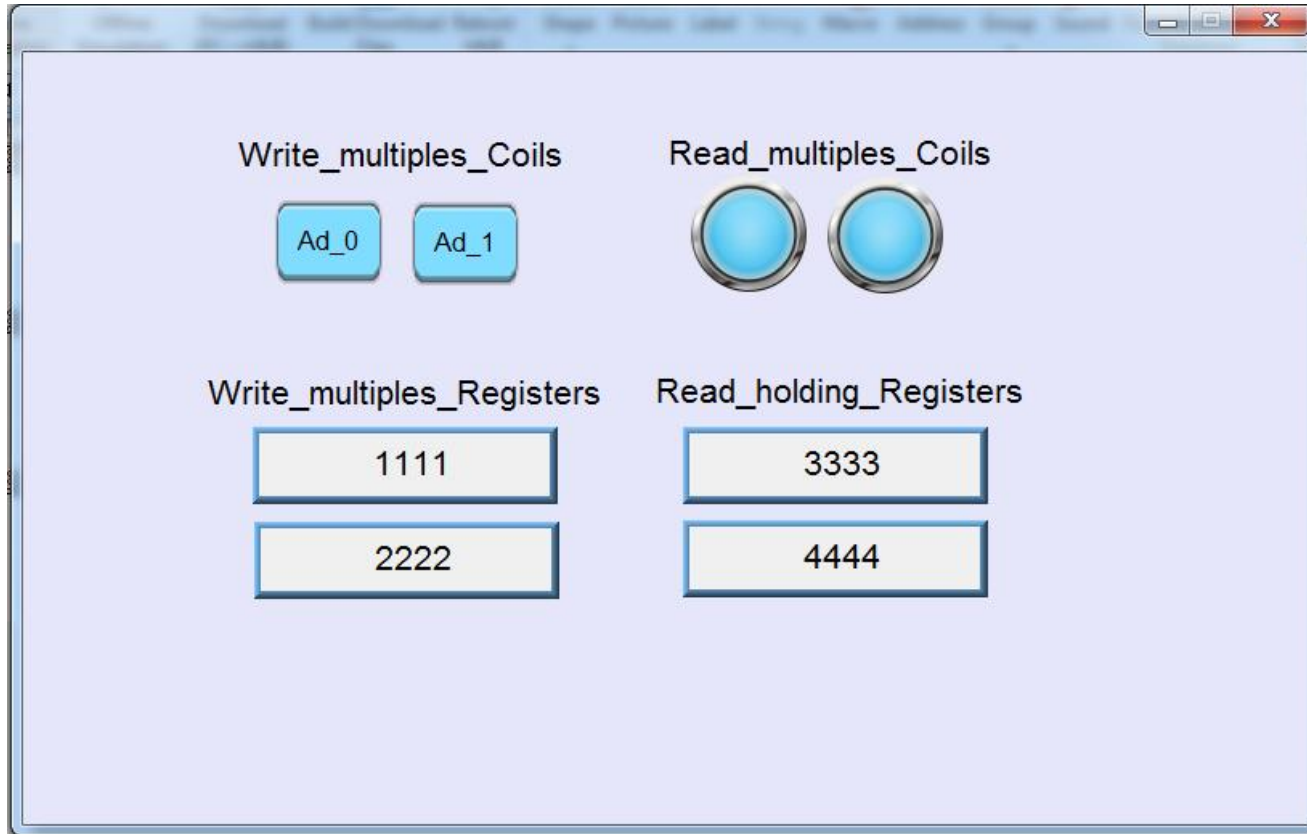
Symbol/Variable	Data Type	Process Data Item	Des	Device	Process Data It...	I/Q	Data Type	Byte.Bit	Symbol/Variable
BOTAO_1	BOOL	# 1 Generic Modbu...		# 1 Generic Modbus Devi...	STATION_DIAG	I	MBT_STAT...	0	
BOTAO_2	BOOL	# 1 Generic Modbu...		# 1 Generic Modbus Devi...	STATION_CON...	Q	MBT_STAT...	0	
LED_1	BOOL	# 1 Generic Modbu...		# 1 Generic Modbus Devi...	BIT_0_IHM	I	BOOL	0.0	STD_CNF STD_RES \ BOTAO_1
LED_2	BOOL	# 1 Generic Modbu...		# 1 Generic Modbus Devi...	BIT_1_IHM	I	BOOL	0.0	STD_CNF STD_RES \ BOTAO_2
DISPLAY_1	INT	# 1 Generic Modbu...		# 1 Generic Modbus Devi...	BIT_10_IHM	Q	BOOL	0.0	STD_CNF STD_RES \ LED_1
DISPLAY_2	INT	# 1 Generic Modbu...		# 1 Generic Modbus Devi...	BIT_11_IHM	Q	BOOL	0.0	STD_CNF STD_RES \ LED_2
EDIT_TEXT_1	INT	# 1 Generic Modbu...		# 1 Generic Modbus Devi...	WORD_100_IHM	I	WORD	0.0	STD_CNF STD_RES \ DISPLAY_1
EDIT_TEXT_2	INT	# 1 Generic Modbu...		# 1 Generic Modbus Devi...	WORD_101_IHM	I	WORD	0.0	STD_CNF STD_RES \ DISPLAY_2
				# 1 Generic Modbus Devi...	WORD_200_IHM	Q	WORD	0.0	STD_CNF STD_RES \ EDIT_TEXT_1
				# 1 Generic Modbus Devi...	WORD_201_IHM	Q	WORD	0.0	STD_CNF STD_RES \ EDIT_TEXT_2

Status das Variáveis – PC Worx em modo Debug

	Name	Online value	Type	Usage	Description
	[-] Default				
	BOTAO_1	TRUE	BOOL	VAR_EXTER...	
	BOTAO_2	TRUE	BOOL	VAR_EXTER...	
	LED_1	TRUE	BOOL	VAR_EXTER...	
	LED_2	TRUE	BOOL	VAR_EXTER...	
	DISPLAY_1	1111	INT	VAR_EXTER...	
	DISPLAY_2	2222	INT	VAR_EXTER...	
	EDIT_TEXT_1	3333	INT	VAR_EXTER...	
	EDIT_TEXT_2	4444	INT	VAR_EXTER...	

Code:Main Variables:...

Simulação IHM em modo ONLINE



Pronto!!!

O Drive e as TAGS estão configuradas
Já pode iniciar o desenvolvimento da interface gráfica.



INSPIRING INNOVATIONS

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