Komunikace Koyo PLC - Crevis I/O přes Modbus TCP/IP

Nastavení Ethernet modulu Hx-ECOM100:

Pomocí SW NetEdit – v záložce ECOM Settings/General nastavte IP adresu modulu Hx-ECOM a pak v záložce ECOM Settings/Peer to Peer Config nastavte adresy modulu (slave):

Edit Device Address	×	
RXAWX Device Number:	2	<- číslo modulu (slave ID)
Device Configuration		
🔿 ЕСОМ	Find Hx-ECOM	
IP Address:	10.0.1.55	
Ethernet Address:	00 00 00 00 00 00 00	
Modbus/TCP		
IP Address:	10.0.1.55	<- IP adresa modulu (slave)
Port:	502	
Unit ID:	þ	
OK	Cancel	

Nastavení modulu Crevis NA-9189:

Připojte modul k síti Ethernet a spusťte IOGuide Pro software a zapněte napájení modulu. V záložce Tools/Bootp Server klepněte na tlačítko Start Bootp. Systém vyhledá dostupné moduly.

					onow only d	
Type	Time	Ethernet Address(IP Address	Transaction ID		
12	14:12:	00-14-F7-00-1E-59		741		
1	14:13:	00-14-F7-00-1E-59		741		
1	14:13:	00-14-F7-00-1E-59		741		
1	14:13:	00-14-F7-00-1E-59		741		
1	14:13:	00-14-F7-00-1E-59		741		
Ŷ	14:14:	00-1D-60-53-DB-3C	10.0.0.22	4093005540		
tup Hi	story					
tup Hi Num	story Etherne	et Address(IP A	Address Subr	net Mask 🛛 Gate	way Address	Transaction 1
tup Hi Num	story Etherne	it Address(IP A	Address Subr	net Mask 🛛 Gate	way Address	Transaction 1

Dvojklikem na požadovaný modul se zobrazí okno pro zadání IP adresy modulu NA-9189.

S	etup IP Address									×
	- IP Address Setup Mac Address	00	-14-F	7-00	-1E-6	59				1
	IP Address	Γ	10	•	0	•	1	•	55	
	Subnet Mask	Γ	0		0		0		0]
	Gateway	Γ	0		0		0		0	1
	Interface	Za	э						-]
	Ok]		(Canc	el			

Po zadání IP adresy vytvořte nový projekt z nabídky File/Project File/New:

New Project	
Project Name	Bus Type
Pokus	MODBUS TCP/IP
Location	
C:\Program Files\Crevis\IOGuidePro\Projects	
	OK Cancel

Zadejte název projektu a vyberte typ komunikačního modulu – Modbus TCP/IP. Pak v nabídce Online/Automatic scan spusťte Scan. Tím se načte konfigurace I/O.

IOGuidePro [Version:0.9.5.0. Build:#0001]		
🖹 🖻 🗒 🦻 📭 📭 🕁 🛪 ½	2 🕼 🔛 🏥 🕼 🖪 🖪 🖪 🕑 🕑 😓 🖶 😼 😼 User View 💽 Analog Norma	I Value 💌
Project Window		NA & IO List 🔹 🔺
Pokus		Network Adapter
🖶 🖬 NA-9189 (10.0.1.55)	It's not online	Digital Input
📫 01: ST-1218 CRE		Digital Output
- 💼 02: ST-1218	ABOUT CREVIS PRODUCT DOWNLOAD SUPPORT	Analog Input
03: ST-1218		Analog Dutout
mm 04: S1-1228		Reversible dula
▲ 05: 51-121F		Power Module
	Irial Controller	Special Module
👬 08: ST-2318		System Module
		¥ ST-7008
	-Fieldbus Network 10 CREtivity makes	¥ ST-7108
12 ST-2318	Circuity inakes	¥ ST-7118
Field	bus Master Card VISion of th	¥ ST-7188
	Industrial Camera	¥ ST-7408
		₩ST-7508
O Project Explorer	mepage / Image \ Process Image \ Parameter \ Commet /] -	¥ ST-7518
X ! Date Time From	Message	¥ ST-7588
2011-03-25 14:25:00.139 modbusDrv.dll	Communication channel instance is removed.	
2011-03-25 14:25:00.123 IOGuidePro	Device driver for NA-9189 (10.0.1.55) is loaded successfully. modbusDrv.dll [Version:0.9.4.0. Build:0001]	
ο 😌 2011-03-25 14:24:54.077 IOGuidePro	Auto scan is successfully completed!	
🗑 🥌 2011-03-25 14:24:54.061 IOGuidePro	Starting auto scan. Device driver:C:\Program Files\Crevis\IOGuidePro\modbusDrv.dll.	
8 2011-03-25 14:22:45.792 IOGuidePro	New project is made. Path: C:\Program Files\Crevis\IOGuidePro\Projects\Pokus.CIO	
□ I I I I I I Communication \ Dev	eloper / V	
CREVIS Co., Ltd		

V nabídce View/View Address map lze zobrazit Modbus adresy jednotlivých modulů:

it Mode	#2 Uncompressed Input Processing Data without Status							
out Mode	#0 Uncompressed Our							
ress	Slot# / Model	Ch#	Input Word	Input Bit	Output Word	Output Bit		
(Hex)	🖬 00: NA-9189							
	🛨 🧰 01: ST-1218	0	0x0000/00	0x0000				
	🛨 🧰 02: ST-1218	0	0x0000/08	0x0008				
	🛨 🧰 03: ST-1218	0	0x0001/00	0x0010				
	🛨 🧰 04: ST-1228	0	0x0001/08	0x0018				
	🛨 🧰 05: ST-121F	0	0x0002/00	0x0020				
	🛨 譱 06: ST-2318	0			0x0800/00	0x1000		
	🛨 譱 07: ST-2318	0			0x0800/08	0x1008		
	🛨 츑 08: ST-2318	0			0x0801/00	0x1010		
	🛨 🧙 09: ST-3702	0	0x0003/00	0x0030				
	🛨 譱 10: ST-2328	0			0x0801/08	0x1018		
	🛨 🎰 11: ST-2318	0			0x0802/00	0x1020		
	🛨 🂼 12: ST-2318	0			0x0802/08	0x1028		

Adresování v Koyo:

Vstupy: word 0x0000 = Z1 (HEX formát) nebo V0 (octal) word 0x0001 = Z2 (HEX formát) nebo V1 (octal)

.....

při čtení typu word musí být sudý počet bytů

nebo

bit 0x0000 = GX0						
bit 0x0008 = GX10						
bit 0x0010 = GX20						

.....

 Výstupy:
 word 0x0800 = Z801 (HEX formát) nebo V4000 (octal)

 word 0x0801 = Z802 nebo V4001

při zápisu typu word musí být **sudý** počet bytů

nebo

bit 0x1000 = C2000 bit 0x1008 = C2010 bit 0x1010 = C2020 Příklad programu s použitím IBox instrukcí (nutný DirectSOFT verze 5.0 a vyšší):

E DirectS	DFT 5 Programming - UNTITLED - [Ladder View]		
<u>F</u> ile <u>E</u> dit	<u>S</u> earch <u>V</u> iew <u>T</u> ools <u>P</u> LC <u>D</u> ebug <u>W</u> indow <u>H</u> elp		
Read Wri	te New Open 🔜 时 🎉 🖉 🦛 🕼 paste Find 🗞 🚱 🖓	mOut DSP Help	
ReadP We	ter Status Data Value Mode Info Syntax -		
Ladder V	iew		
1		Network Config NETCFG Network #	IB-700
		CPU Port or Slot (ex. KF2 or K3) Workspace	K4 F2 V400 北半
	_On SP1	Network RX Read	IB-701
2		Network #	K0 ×F3
		Slave ID From Slave Element (Src)	K2 Z1
		Number Of Bytes To Master Element (Dest)	K10 +1+ V2002 \$h#F3
		Error	
		Network WX Write	ID 200
		Network #	K0 −1≥ F
		Workspace Slave ID	
		From Master Element (Src)	VC100
		Number Of Bytes To Slave Element (Dest)	
		Success	C5 Contact
		Error	
3			Box
0			, "
For Help, pre	ss F1 OK Online: DE	KSeq Run 00506/07680 06	0015:001:001

Příklad programu bez IBox instrukcí:

