

Setup of Ethernet for WCU

Installation

1. When the control is delivered it has no IP-address – the address will be given via DHCP.
2. You can edit the Node address on the Ethernet module, either with a programme the PLC provider has, or with a free programme offered on the ANYBUS website. The programme is called "IPconfig-Utility for module TCP/IP Configuration".

Find it here: <https://www.anybus.com/support/file-doc-downloads/anybus-support-tools?orderCode=tools>

Anybus Support Tools

ORDER CODE: TOOLS

Firmware Update Tools Tools needed for upgrading firmware in Anybus products. Using the firmware update tools are always made on your own risk and HMS will not take any liability...

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File	Version	Size	Download
SOFTWARE			
Firmware Download Tp	2.16.1.1	8.62 MB	Download
Anybus Transport Provider	3.6.1.2	6.77 MB	Download
Anybus Firmware Manager II	1.7.1.1	9.29 MB	Download
IPconfig - Utility for module TCP/IP Configuration	3.1.1.2	1008.64 KB	Download

EDS file

1. Get EDS file to CompactCom 40 EtherNet/IP
2. Use EDS file: 005A002B00370100.EDS

Get the EDS file on linak3p.com.

It is not necessary to use the EDS file, it is possible to make a setup yourself.

Setup of data

1. Communication PC to Anybus-Compactcom
 - a. Instance ID = 150
 - b. Data Size = 12 bit (map 6 output word)
 - c. Packet rate 100ms
 - d. Transport type = Point to point
 - e. Data size type = Fixed Size
 - f. Priority = Scheduled

2. Communication Anybus-Compactcom to PC
 - a. Instance ID = 100
 - b. Data Size = 12 bit (map 6 input word)
 - c. Packet rate 100ms
 - d. Transport type = Point to point
 - e. Data size type = Fixed Size
 - f. Priority = Scheduled

Parameter list

Be aware that the bit order can be reversed, depending on the application.

The user has three different commands to control the WCU-BUS control via the Bus module. It is possible to select two different parameter types:

- Mode 0, the parameters are limited.
- Mode 1, all parameters are available.

The memory area is read and written every second.

Command is written in parameter 2

- 0x54 – runs to position
- 0x5A – read parameter (can only be used in mode 1)
- 0x60 – write to parameter (area 15-66), only mode 1
- 0x90 – command reads parameter 6, limited parameter or full pack

Write the required position before start command is given.

Mode 0: Limited parameter

Write word area

Word	Byte	Description
1	1	Command = 54 drive to target (value written in word HEX), 5A reads status value, all parameters can be changed, cannot write until after reading, dangerous to play with. 60 = write value in parameter.
	2	
2	3	Position 0 ... 100
	4	
3	5	Mode 0 = limited parameter, 1 = all parameters.
	6	
4	7	Not in use.
	8	
5	9	Not in use.
	10	
6	11	Not in use.
	12	

Read word area (input)

Word	Byte	Description
1	1	Last received command
	2	
2	3	Status: Actuator run, 1 FW, 2 BW, 0 stop
	4	
3	5	Position 0 ... 100
	6	
4	7	Auto 0 / Manual 1
	8	
5	9	Error codes: 1 = overcurrent 2 = fault in power supply 3 = battery failure 4 = timeout 5 = overheating 6 = overvoltage 7 = error sp. See section troubleshooting.
	10	
6	11	Reading end stop: 0 = no limit 1 = atc. back 2 = act. forward