

REOVIB

Control Equipment for the Vibratory Feeder Industry

MFS 368
Frequency Converter for Vibratory Feeders

Annex: EtherNet-IP V02 - programming

Safety notice for the user

This description contains the required information for the intended usage of the products described herein. They are intended for use by technically qualified personnel.

Qualified personnel are those persons who, due to their training, experience and instruction, as well as their knowledge of the relevant standards, requirements, accident prevention regulations and operational conditions, are authorized by those responsible for the safety of the system to carry out their respective duties, and to recognize possible dangers and prevent them (Definition for experts according to IEC 364).

Danger warnings

The following notices serve to protect the personnel safety of the operators and the safety of the described products as well as the devices connected to them.



Warning!

Dangerous Voltage.

Inattention can lead to death, serious injuries or damage to equipment.

- Turn off the supply power before assembly or disassembly work and when fuses are changed, or equipment modifications are undertaken.
- Observe the applicable accident prevention and safety regulations for the respective application.
- Before placing the equipment in operation, check whether the rated voltage of the device is in agreement with the supply voltage.
- **Emergency OFF equipment must remain effective in all operating modes. Unlocking the emergency OFF equipment must not cause an uncontrolled startup of equipment.**
- **The electrical connections must be covered!**
- **The ground lead connections must be inspected after mounting to insure that they function perfectly!**

Usage according to the regulations

The devices described herein are electrical operational equipment for application in industrial systems. They are constructed for the regulation of vibratory feeder equipment.

Contents

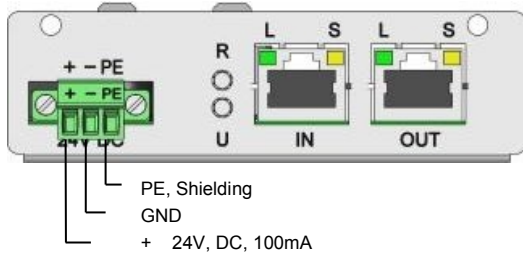
Safety notice for the user.....	2
1.0 General	4
2.0 Interface operation (EtherNet/IP)	5
3.0 Activate interface	5
4.0 EDS-File	5
5.0 Bus operating modes.....	6
5.0.1 Normal Operation	6
5.0.2 Parameter Operation	6
5.1 Programming for the Bus operation.....	7
5.1.1 Send to controller	7
5.1.2 Reply from controller	7
5.2 Parameter Operation	8
5.2.1 Creating parameter addresses and values	8
5.2.2 Send write enable	8
5.2.3 Recive, Acknowledge Write Enable	9
5.2.4 Send Parameter	9
5.2.5 Received acknowledge	9
5.2.6 Close write enable.....	10
5.2.7 Parameter read (send).....	10
5.2.8 Received parameter	10
6.0 Parameters table	11
7.0 Example of bus communication with Frequency controller	13
7.1 Normal mode	13
7.2 Parameter mode	13
7.3 RESET Controller	14
8.0 Methods for setting the IP address.....	15
8.1 Set IP address, BOOTP-DHCP Server.....	15

1.0 General

The frequency converter for vibratory feeders REOVIB MFS 368 series can be operated with a EtherNet-IP interface. In "normal mode" the setpoint value for the conveying capacity is transmitted from the PLC to the controller and the device status (ready for operation / fault) is reported back. In a further parameter mode, the device can be fully configured via EtherNet-IP. For the interface an external voltage supply of 24 V DC is required.

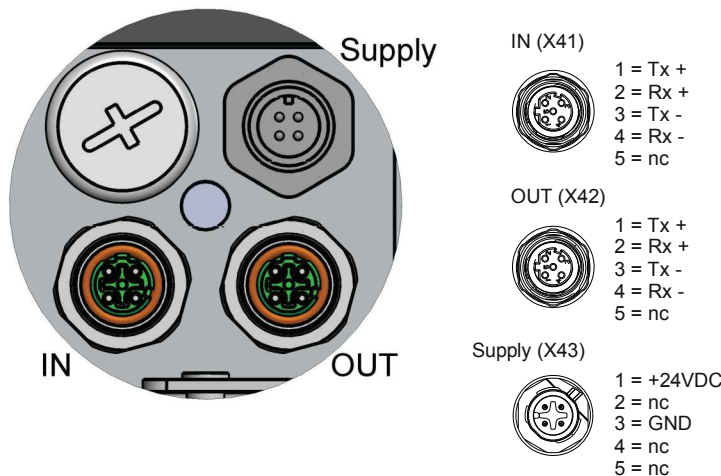
Delivery of the equipment belongs a corresponding EDS-File.

Interface module (IP20)



- R = continuous light: Communication externally active
blinking or Off: Communication disturbed externally
- U = blinking: Operating voltage available

Interface connection (IP54)



The interface enables communication with the frequency converter, using 4 data words (i.e. 16 Bits). The four 16 Bit words are transmitted and acknowledged every bus cycle.

! Important – Data consistence is required to operate with EtherNet-IP!

Note: Please refer to the respective manufacturer documentation for information on specifications and procedures for ensuring data consistency for the PLC model you are using.

Units are factory set prior to delivery and so are configured for bus operation. If the unit is required for manual control then the parameter "Bus operation" in menu "Interface" should be deactivated. You get back to bus operation, if you activate this parameter again.

2.0 Interface operation (EtherNet-IP)

Bus Power Supply	24 V, DC, 250 mA
Bus connector	2 x RJ-45
Internal interface	CAN-Bus
Supported baud rates	1000 kBaud
Communication	Data consistency required
Protocol	EtherNet-IP

3.0 Activate interface

To activate interface operation, the "Bus operation" parameter must be activated in the "Interface" menu. If the unit is to be operated manually, this parameter must be deactivated.

Important: The "Bus address" parameter must remain set to "1" and the "Bit rate" parameter to 1Mbit/s.

No.	Menu / Parameter	Meaning	Adjustment
5	Interface		
5.1	Bus operation	Interface activate / deactivate	<input checked="" type="checkbox"/> / <input type="checkbox"/>
5.2	Bus address	Internal bus address (do not change)	1...16
5.3	Bit rate	Internal bus bitrate (do not change)	1Mbit/s / 500kbit/s
5.4	CAN Proto	Interface protocol (do not change)	V1.i / V2.f

4.0 EDS-File

Following EDS File is required for the operation with the EtherNet-IP interface:

EDS File name:	reogate.eds
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The EDS-file is supplied on a CD with each new unit or alternatively, visit www.reo.de to download the file from the website.

5.0 Bus operating modes

Two fundamental operating modes can be chosen for bus communication.

5.0.1 Normal Operation

Control of the frequency controller in production, in which case the Set point and ON/OFF control signals are transmitted.

5.0.2 Parameter Operation

Set the working unit to the desired operating modes and limit values.

In a special mode, parameter addresses and the parameters themselves are transferred to the working unit and received again as confirmation.

Parameter operation mode is not suitable for continuously setting of values as it releases write operations in the internal retentive memory while the latter enables only a limited number of memory processes.

Control-words and **Status-words** functionally are composed of 16 individual Bits (Control-word) or resp. 1 Byte and 8 Bits (Status-word). Depending on the possibilities of the PLC used, there are several procedures to create the Control-word as desired. If this is composed of smaller blocks (Byte/Bit), it must be observed in which order the PLC used maps high- and low byte in the storage area.

With limited number of possible combinations these can be predefined as a constant for example and then transmitted into the word to perform the function (0000H, 0004H, 8000H and 8004H. Please consider that the unit will keep running only with a set enable bit.)

The Status-word includes the Status-Code as a Byte value as well as additional Status-Indications in Bit form. As in the Bit-area there are various un-defined Status-Bits (these are provided only for internal production tests and may be modified in their function any time), the Status-word cannot be meaningfully evaluated with a simple comparative operation.

Prior to its comparison the value of the Status-code must be extracted. Same applies to an individual Status-Bit. Depending on PLC used, for ex-ample there are options such as Variable Overlay, Mask Out by means of linking functions (and/or in case of need also push operations and type conversion) or Slice access. With trouble-free running unit it is possible to recognize from the returned value A5H, in which order the PLC is storing High- and Low-Byte in memory.

The internal processing cycle for bus communication is at about 32 msec. The data transmitted to the unit are not internally buffered, and therefore it is necessary that the parameter command remains unchanged until the associated feedback has not acknowledged its receipt.

5.1 Programming for the Bus operation

In normal operation the set point for Amplitude (throughout/feed rate) and the digital control signals, such as enable are set across the interface. The actual voltage/current values and unit status (ready or fault) are fed back. All data words are within the range 0...65535. Please note that these are unsigned data values which, depending on the possibilities of the PLC used, may have to be converted between different data formats (e.g. if the PLC only supports data formats with signs during processing). In order to be able to detect overruns in the actual values, the value range 0...65535 is designed for 0...200 %.

5.1.1 Send to controller

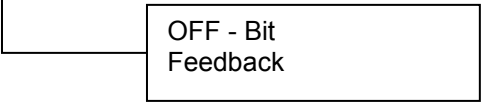
H-Byte								L-Byte								Word 1
15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	0000 H (reserve)
H-Byte								L-Byte								Word 2
15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	Set point 1, 16-Bit 100 % = FFFF H
H-Byte								L-Byte								Word 3
15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	Reserved
H-Byte								L-Byte								Word 4
15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	Control - word
Mode bit													Enable			Bit = „1“ = Function ON
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	All unused bits MUST be set to `0`
Control information (unit specific)																



5.1.2 Reply from controller

H-Byte								L-Byte								Word 1
15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	xxxx H (undefined)
H-Byte								L-Byte								Word 2 (only in regulation mode)
15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	Feedback actual acceleration 16 Bit 100% = 8000H
H-Byte								L-Byte								Word 3
15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	Feedback actual output current, 16 Bit 100% = 8000H (in % of I-nominal)
H-Byte								L-Byte								Word 4
15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	Status - Word
Status - Code ERROR - Code											OFF					X = not defined Bit = „1“ = Function ON
								Status information Unit specific								

- 00 Unit not responding
- A5 (H) Unit ready
- 47 (H) ERROR Peak I
- 58 (H) ERROR OC
- 02 (H) ERROR OL
- 0C (H) ERROR ACC
- 37 (H) ERROR OU DC-link
- C0 (H) Feedback
Parameter mode



Status, actual acceleration and actual output current are received.

5.2 Parameter Operation

In parameter operation, the specific unit parameters can be monitored and adjusted.

A `write` enable must be transmitted before parameters can be altered. On closing, the `write` enable must be cancelled.

A `read` request must be sent before data can be read.

Word 4 in the acknowledge is always `C0DE H`. This indicates that the controller is in parameter mode.

After a command, has been sent, it is inadmissible to await the associated positive response before the next command is sent!

5.2.1 Creating parameter addresses and values

In parameter operation the most significant bit (msb) in Word 1 is defined as a read or write bit (R/W), where 1 = write and 0 = read, this should be accompanied by the corresponding parameter address.

The mode bit (msb in Word 4) is used to select normal or parameter operation, 0 = Normal or 1 = parameter operation.

Word 1:	reserved	0000 H
Word 2:	R / W – Bit + Address	e.g. 8000 H + 1009 H => 9009 H
Word 3:	Value of the parameter	e.g. 7FFF H
Word 4:	Mode bit = 1 + Control bit's	e.g. 8000 H + 0004 H => 9004 H

For bit, orientated parameters, ONLY those bits relating to the required function may be changed, all other bits MUST remain unaltered, otherwise factory specific settings may be inadvertently altered!

Procedure for changing bit parameters:

1. Select parameter value
2. Change only the required bit (s) in the selected parameter
3. Send `write` enable
4. Send the changed parameters back to the same address
5. Close the `write` enable

Alternative proposal:

1. Switch on write enable first.
2. Then read out the current value immediately before writing.
3. Modify immediately and write back immediately.
4. Do not reset the write enable until all parameterization options have been terminated.

5.2.2 Send write enable

H-Byte								L-Byte								Word 1
00								00								0000 H
H-Byte								L-Byte								Word 2
C0								DE								Write Enable Address =C0DE H
H-Byte								L-Byte								Word 3
B5								E7								Write Enable =B5E7 H
H-Byte								L-Byte								Word 4
15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	Control - Word + 8000 H
1 Mode bit	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Mode Bit must be set to `1`!!
	All unused bits <u>must</u> be set to `0`															
Bit = „1“ = Function ON																
Control information (unit specific)																

5.2.3 Recive, Acknowledge Write Enable

H-Byte 00	L-Byte 00	Word 1 xxxx H
H-Byte C0	L-Byte DE	Word 2 C0DE H
H-Byte B5	L-Byte E7	Word 3 B5E7 H
H-Byte C0	L-Byte DE	Word 4 C0DE H

The parameters can be sent after receipt of the acknowledge.

5.2.4 Send Parameter

H-Byte 00	L-Byte 00	Word 1 0000 H
H-Byte	L-Byte	Word 2
15 14 13 12 11 10 9 8	7 6 5 4 3 2 1 0	Parameter address + R / W – Bit (16-Bit) = 0...FFFF H
R / W	<i>Parameter address</i>	
H-Byte XX	L-Byte XX	Word 3 Parameter value (16-Bit) = 0...FFFF H
H-Byte	L-Byte	Word 4
15 14 13 12 11 10 9 8	7 6 5 4 3 2 1 0	Control - Word + 8000H Mode must be set to `1`!! All unused bits <u>must</u> be set to `0` Bit = „1“ = Function ON
1 Mode bit		
Control information (unit specific)		

5.2.5 Received acknowledge

H-Byte 00	L-Byte 00	Word 1 xxxx H
H-Byte	L-Byte	Word 2
15 14 13 12 11 10 9 8	7 6 5 4 3 2 1 0	Confirmation of the sent address. + R / W - Bit
R / W	<i>Parameter address</i>	
H-Byte XX	L-Byte XX	Word 3 Confirmation parameter value.
H-Byte C0	L-Byte DE	Word 4 Confirmation parameter mode. (always „CODE“ H)

5.2.6 Close write enable

H-Byte								L-Byte								Word 1	
00								00								0000 H	
H-Byte								L-Byte								Word 2	
C0								DE								Write Enable Address = C0DE H	
H-Byte								L-Byte								Word 3	
00								00								Enable value 0000	
H-Byte								L-Byte								Word 4	
15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	Control - Word + 8000 H Mode bit must be set to `1`!! All unused bits <u>must</u> be set to `0` Bit = „1“ = Function ON	
Mode bit																	
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Control information (unit specific)																	

5.2.7 Parameter read (send)

H-Byte								L-Byte								Word 1	
00								00								xxxx H	
H-Byte								L-Byte								Word 2	
15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	Parameter address + R / W - Bit	
R / W	Parameter address																
H-Byte								L-Byte								Word 3	
00								00								Read enable value = 0000	
H-Byte								L-Byte								Word 4	
80								00								Mode bit = 1 + Control bits	

5.2.8 Received parameter

H-Byte								L-Byte								Word 1	
00								00								xxxx H	
H-Byte								L-Byte								Word 2	
15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	Confirmation Parameter address + R / W - Bit	
R / W	Parameter address																
H-Byte								L-Byte								Word 3	
XX								XX								Parameter value	
H-Byte								L-Byte								Word 4	
C0								DE								Confirmation parameter mode	

6.0 Parameters table

Non listed addresses cannot be altered!

Parameter:	Adjustment	Display-Code	Factory Setting:	Parameter address HEX (.bit)	Value HEX
Vibratory feeder					
• Amplitude (throughput)	0...100 %	Feeder	0 %	0x100C	0x0000...0xFFFF
• Second set point / coarse - fine	0...100 %	2.	0 %	0x1006	0x0000...0xFFFF
• Maximum control limit (U_{max})	5...100 %	Max.	90 %	0x1009	0x0CCC...0xFFFF
• Vibrating frequency (according to limit value)	3,33...333 Hz	Frequency	100 Hz	0x1005	01F4...7530 H 500...30000 dec. (FL.)...(FH.)
• Soft start ramp up	0...60 sec.	Soft start	0,1 sec.	0x1013	0x0000...0xFFFF
• Soft stop ramp down	0...60 sec.	Soft stop	0,1 sec.	0x1012	0x0000...0xFFFF
• Switch to external set point	<input checked="" type="checkbox"/> / <input type="checkbox"/>	External setpoint	<input type="checkbox"/>	0x5800	0x0000 / 0x FFFF
• Setpoint 0(4)...20 mA	<input checked="" type="checkbox"/> / <input type="checkbox"/>	Setpoint	<input type="checkbox"/>	0x5801	0x0000 / 0x FFFF
• Coarse / Fine control	<input checked="" type="checkbox"/> / <input type="checkbox"/>	Coarse / Fine	<input type="checkbox"/>	0x580C	0x0000 / 0x FFFF
• Invert enable	<input checked="" type="checkbox"/> / <input type="checkbox"/>	Invert. Enable	<input type="checkbox"/>	0x5811	0x0000 / 0x FFFF
Regulation (with sensor)					
• Switch to regulation	<input checked="" type="checkbox"/> / <input type="checkbox"/>	Acc. Regulator	<input type="checkbox"/>	0x5808	0x0000 / 0x FFFF
• P characteristic	0...100	Proportional	40	0x100F	0x0000...0xFFFF
• I characteristic	0...100	Integral	100	0x1014	0x0000...0xFFFF
• Automatic frequency control	<input checked="" type="checkbox"/> / <input type="checkbox"/>	Auto. Freq.	<input type="checkbox"/>	0x5809	0x0000 / 0x FFFF
Track control					
• Switch on time delay	0...60 sec.	T-ON	1 sec.	0x1003	0x0000...0xFFFF
• Switch off time delay	0...60 sec.	T-OFF	1 sec.	0x1002	0x0000...0xFFFF
• Invert sensor	<input checked="" type="checkbox"/> / <input type="checkbox"/>	Invert. Input	<input type="checkbox"/>	0x580A	0x0000 / 0x FFFF
Sensor control					
• Sensor Time-out	<input checked="" type="checkbox"/> / <input type="checkbox"/>	Timeout on	<input type="checkbox"/>	0x580B	0x0000 / 0x FFFF
• Sense time delay (Sensor Time-out)	1...240 sec.	Timeout	180 sec.	0x1004	0x0000...0xFFFF
Interface (option)					
• Interface OFF / ON	<input checked="" type="checkbox"/> / <input type="checkbox"/>	Bus operation	<input checked="" type="checkbox"/>	0x5854	0x0000 / 0x FFFF
Service					
• ERROR Reset	Reset	ERROR Reset		0x1400	0xC009
• Hide programming menus	<input checked="" type="checkbox"/> / <input type="checkbox"/>	Hd.C.		0x5804	0x0000 / 0x FFFF
• Choose user parameter menu No. 0...3	0...3	Parameter set	0		2)
• Save user settings		Parameter set loading			2)
• Recall factory settings		Load factory settings			2)
• Choose user parameter menu No. 0...3	0...3	U.S.I.	0		2)
• Recall user parameter		Saving Parameter			2)

Parameter:	Adjustment	Display-Code	Factory Setting:	Parameter address HEX (.bit)	Value HEX
Service limits					
• Enable service menu	<input checked="" type="checkbox"/> / <input type="checkbox"/>	Service	<input type="checkbox"/>	0x5834	0x0000 / 0x FFFF
• Show output current (0... 100 %)		Ist-Strom		0x200A	0x0000...0x8000 H
• Current limit	0...100 %	Current limit	100	0x1016	0x0000...0xFFFF
• Current regulator P-part	1...100	Prop	20	0x100D	0x0000...0xFFFF
• Current regulator I-part	1...100	Integral	40	0x1032	0x0000...0xFFFF
• Min frequency limit	5...150 Hz	Min. Freq.	35	0x1020	0x01F4...0x7530 500...30000 dec.
• Max frequency limit	5...150 Hz	Max. Freq.	140	0x1021	0x01F4...0x7530 500...30000 dec.

- 1) Not available IP20 Version
2) Not for fieldbus operation

7.0 Example of bus communication with Frequency controller

Variable values are shown in *italics*.

7.1 Normal mode

(Set point to 70 %)

Send Set point	Word	Code	send	Code	Received
	1		0000 H		0000 H
2		B332 H	Set point = 70 %	---	---
3					
4		0004 H	Enable ON	A5xx H	Ready

Enable ON, Stop controller (with enable)

Send set point	Word	Code	send	Code	Received
	1		0000 H		0000 H
2		B332 H	Set point = 70 %	---	---
3					
4		0000 H	Enable OFF	A5xx H	Ready

7.2 Parameter mode

(e.g. set frequency to 50 Hz and soft start to 2 second)

Open write enable	Word	Code	send	Code	Received
	1		0000 H		0000 H
2		C0DE H	Write enable address	C0DE H	Acknowledge
3		B5E7 H	Write enable value	B5E7 H	Acknowledge
4		8000 H + Control bits	Set mode bit = 1	C0DE H	Acknowledge

Write parameter	Word	Code	send	Code	Received
	1		0000 H		0000 H
2		9005 H	Parameter address Vibrating frequency + R / W - Bit	9005 H	Acknowledge
3		1388H	Frequency 50 Hz	1388 H	Acknowledge 50 Hz
4		8000 H + Control bits	Set mode bit = 1	C0DE H	Acknowledge

Write parameter	Word	Code	send	Code	Received
	1		0000 H		0000 H
2		9013 H	Parameter address Soft start + R / W - Bit	9013 H	Acknowledge
3		3333 H	Soft start 2 sec.	3333 H	Acknowledge 2 seconds
4		8000 H + Control bits	Set mode bit = 1	C0DE H	Acknowledge

Close write enable	Word	Code	send	Code	Received
	1		0000 H		0000 H
2		C0DE H	Write enable address	C0DE H	Acknowledge
3		0000 H	Write enable value	0000 H	Acknowledge
4		8000 H + Control bits	Set mode bit = 1	C0DE H	Acknowledge

Example of switch parameter change

Enable invert

Open write enable	Word	Code	send	Code	Received
	1	0000 H		0000 H	
	2	C0DE H	Write enable address	C0DE H	Acknowledge
	3	B5E7 H	Write enable value	B5E7 H	Acknowledge
	4	8000 H + Control bits	Set mode bit = 1	C0DE H	Acknowledge

Write parameter	1	0000 H		0000 H	
	2	D811 H	Parameter address	D811 H	Acknowledge
	3	FFFF H	New parameter	FFFF H	Acknowledge
	4	8000 H + Control bits	Set mode bit = 1	C0DE H	Acknowledge

Close write enable	Word	Code	send	Code	Received
	1	0000 H		0000 H	
	2	C0DE H	Write enable address	C0DE H	Acknowledge
	3	0000 H	Write enable value	0000 H	Acknowledge
	4	8000 H + Control bits	Set mode bit = 1	C0DE H	Acknowledge

(Read only the parameter)

Read	1	0000 H		0000 H	
	2	1013 H	Parameter address Soft start	1013 H	Acknowledge
	3	0000 H	Read parameter	8000 H	Parameter value (=> 5 seconds)
	4	8000 H + Control bits	Set mode bit = 1	C0DE H	Acknowledge Parameter mode

7.3 RESET Controller

Open write enable	Word	Code	send	Code	Received
	1	0000 H		0000 H	
	1	C0DE H	Write enable address	C0DE H	Acknowledge
	2	B5C9 H	Write enable value	B5C9 H	Acknowledge
	3	8000 H + Control bits	Set mode bit = 1	C0DE H	Acknowledge

Write parameter	1	0000 H		0000 H	
	2	9400 H	Parameter address Reset + R / W - Bit	0000 H	Acknowledge
	3	C009 H	RESET.	0000 H	
	4	8000 H + Control bits	Set mode bit = 1	C0DE H	

Allow approximately 0.5 sec. for RESET

8.0 Methods for setting the IP address

1. BOOTP-DHCP Server Version 3.01.00 (Rockwell Automation)
2. RSLinx Classic 4.11.00

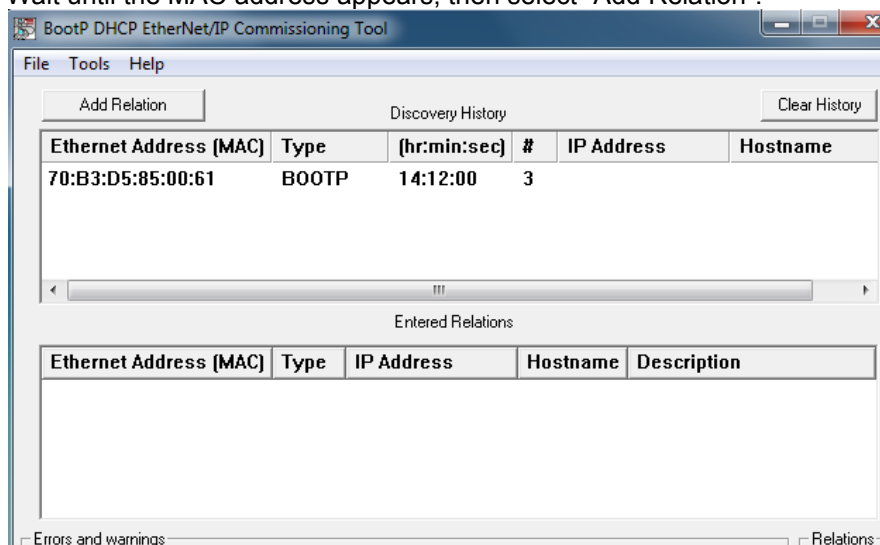
8.1 Set IP address, BOOTP-DHCP Server

1. Please download BOOTP-DHCP Server Version 3.01.00 (Rockwell Automation)

The software can be downloaded with the following link (registration is required):
https://rockwellautomation.custhelp.com/app/answers/detail/a_id/19793

Important: Before the BOOTP-DHCP server is started, the MAC address of the card must be noted.

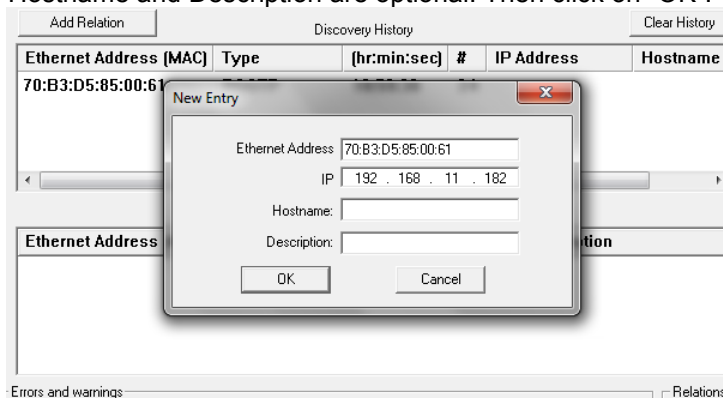
2. Start the BOOTP-DHCP software and configure the network first. Select “Network Settings” in the “Tools” menu.
3. Wait until the MAC address appears, then select “Add Relation”.



If the MAC address is not displayed, there may be the following reasons:

- The firewall blocks the BOOTP-DHCP server
- The card already has a configured IP address
- Network configuration (the card is not directly accessible)
- Wiring (Ethernet cable is defective or not connected, no supply voltage, etc.)

4. After clicking “Add Relation”, a “New Entry” window appears and an IP address must be entered. Hostname and Description are optional. Then click on “OK”.



- The card appears in the "Relation List".

Ethernet Address (MAC)	Type	(hr:min:sec)	#	IP Address	Hostname
70:B3:D5:85:00:61	BOOTP	11:00:18	28	192.168.11.182	

Errors and warnings
Sent 192.168.11.182 to Ethernet address 70:B3:D5:85:00:61

Relations
1 of 256

- Now it is important to right click on the entry and select "Disable BOOTP/DHCP" from here. (The "Enable or Disable BOOTP/DHCP" button does not work reliably)

Ethernet Address (MAC)	Type	IP Address	Hostname	Description
70:B3:D5:85:00:61	BOOTP	192.168.11.182		

- Add Relation
- Delete
- Enable BOOTP/DHCP
- Disable BOOTP/DHCP
- Reset Module's Network Settings to Factory Defaults
- Properties

Errors and warnings
Sent 192.168.11.182 to Ethernet address 70:B3:D5:85:00:61

Relations
1 of 256

- If "Command successful" appears below, the configuration was successful.

Ethernet Address (MAC)	Type	IP Address	Hostname	Description
70:B3:D5:85:00:61		192.168.11.182		

Errors and warnings
[Disable BOOTP/DHCP] Command successful

Relations
1 of 256









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