

QUICK INSTALLATION

MSX-E1721

Ethernet multifunction counter system

02.05 - 01/2016

Connecting the Ethernet system

- Please read the safety precautions (yellow leaflet) first!
- Afterwards, connect your Ethernet system as follows:

- Connect the Ethernet system to your PC or network using an Ethernet cable (e.g. CMX-60).
- Connect the desired functions.
- Optional: Connect the cable for trigger/synchro signals (e.g. CMX-40) to the Ethernet system.



NOTICE!

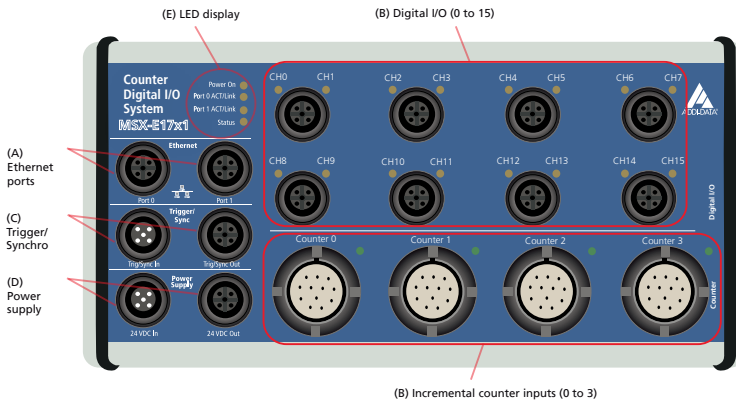
Please ensure that the default IP address of the Ethernet system [192.168.99.99] is not assigned to another system on your network yet.

Starting the Ethernet system

- Connect the Ethernet system to the power source using a power supply cable (e.g. CMX-20).
- Check the status of the Ethernet system by means of the LED display:

Power On:	- lights green	= Power supply is OK
Port 0 ACT/Link:	- flashes yellow	= Ethernet cable is connected to Port 0
Port 1 ACT/Link:	- flashes yellow	= Ethernet cable is connected to Port 1
Status:	- lights green	= Ethernet system is ready for operation
	- lights yellow	= Ethernet system is booting
	- lights/flashes red	= Error while booting

As soon as the "Status" LED lights green, you can install the software (see page 6).

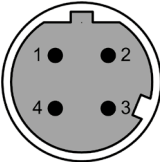
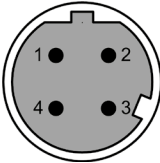


CMX-20: Power supply cable

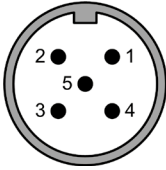
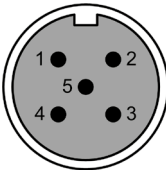


Pin assignment

Ethernet

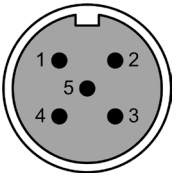
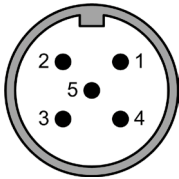
	Port 0	Port 1	Cable (green)
Pin No.	Female connector, D-coded, M12	Female connector, D-coded, M12	Lead colour
1	TD0+	TD1+	yellow
2	RD0+	RD1+	white
3	TD0-	TD1-	orange
4	RD0-	RD1-	blue
			

Trigger/Synchro

	Trig/Sync In	Trig/Sync Out	Cable (purple)	
Pin No.	Male connector, 5-pin, M12	Female connector, 5-pin, M12	Lead colour	Lead pair
1	Trigger input -	Trigger input -	blue	1
2	Trigger input +	Trigger input +	white	
3	Synchro input +	Synchro output +	red	2
4	Synchro input -	Synchro output -	black	
5	GND	GND		
				

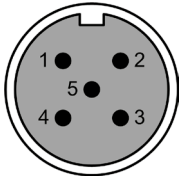
Power supply

	24 VDC In	24 VDC Out	Cable (black)
Pin No.	Male connector, 5-pin, M12	Female connector, 5-pin, M12	Lead colour
1	24 V	24 V	brown
2	24 V	24 V	white
3	GND	GND	blue
4	GND	GND	black
5	not connected	not connected	grey



Digital I/O

Pin No.	Female connector, 5-pin, M12	Cable (black)
		Lead colour
1	24 V output	brown
2	Digital I/O (2n+1)*	white
3	GND	blue
4	Digital I/O (2n)*	black
5	not connected	grey



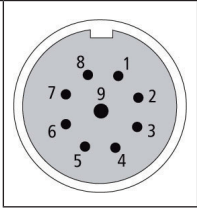
*Please note that the female connector (n) is dual-wired and that the digital I/Os are determined via (2n+1) or (2n) with $0 \leq n \leq 7$.

Examples:

Female connector 0 (n=0) -> Pin 2: (2 x 0 + 1) -> Digital I/O 1
-> Pin 4: (2 x 0) -> Digital I/O 0
Female connector 7 (n=7) -> Pin 2: (2 x 7 + 1) -> Digital I/O 15
-> Pin 4: (2 x 7) -> Digital I/O 14

Sin/Cos counter inputs 1 μ A_{pp}

Pin No.	Female connector, 9-pin, M23	Polarity	Function
3	Voltage supply (5 V)	Output (5 V)	Supply for sin/cos encoder
4	GND	GND	
1	A+	Input	Trace A (Sine)
2	A-		
5	B+	Input	Trace B (Cosine)
6	B-		
7	C+	Input	Trace C (Index)
8	C-		
9	not connected		



Software tool “ConfigTools”

First steps

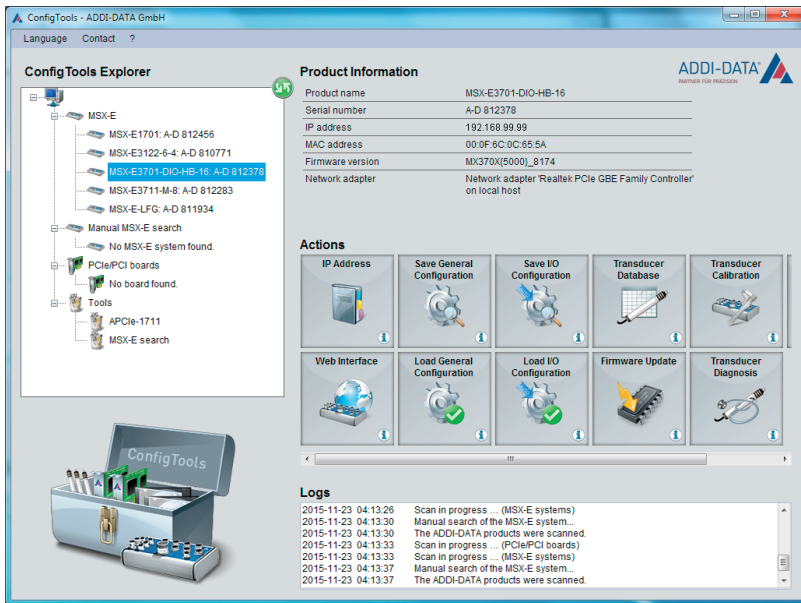
After connecting the required components to your Ethernet system and checking if the power supply is ensured, continue as follows:

- Install the software tool “ConfigTools”, which is to be found on the supplied CD “MSX-E Systems”.

As soon as you have started the installed software tool from your computer, the connected MSX-E systems are scanned.

Main window structure

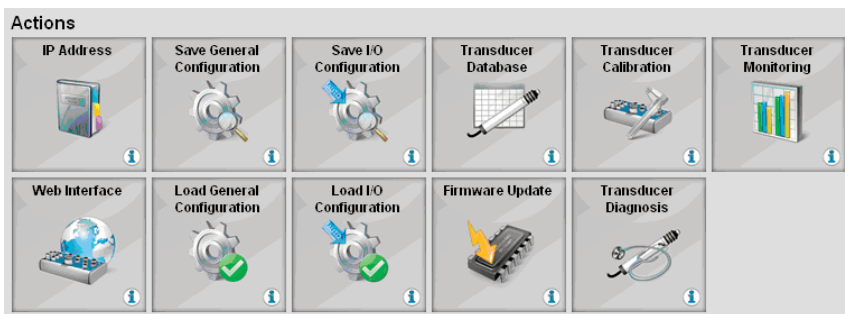
After scanning, all connected MSX-E systems are listed in the ConfigTools Explorer (on the left):



When you click on the name of one of these systems, corresponding product information such as IP address, MAC address and firmware version will be shown on the right side of the main window.

To scan the connected systems once again, for example after connecting another MSX-E system, you have to click on the green icon in the top right of the ConfigTools Explorer area.

Below the “Product Information” area, there are buttons that enable you to perform various actions and to access the web interface of your MSX-E system.



The following actions are possible:

- **IP Address:** Change the IP address of the MSX-E system in order to adapt it to your corporate network, for example.
- **Web Interface:** Access the web interface of your MSX-E system and change the configuration.
- **Save General Configuration:** Save the general configuration of the MSX-E system (including, for example, the network configuration), i.e. all the settings defined on the web interface apart from the I/O configuration.
- **Load General Configuration:** Load a file containing the general configuration of the MSX-E system.
- **Save I/O Configuration:** Save all function-specific settings defined on the web interface under "I/O Configuration".
- **Load I/O Configuration:** Load a function-specific configuration.
- **Transducer Database:** Edit the user's transducer database, that is, for example, change transducer features and add new transducers. The MSX-E database must contain the transducers that will be connected to the MSX-E system in order for the system to detect them.
- **Firmware Update:** Update the firmware of the MSX-E system. The required firmware file is available on request. The file name corresponds to the firmware version.
- **Transducer Calibration:** Calibrate transducers connected to one or more channels.
- **Transducer Diagnosis:** Test transducers for errors (short-circuit, open load).
- **Transducer Monitoring:** Select the channels to be acquired and start the acquisition with monitoring. For each channel, each acquired value is immediately displayed in a diagram.



NOTICE!

Depending on the Ethernet system, a different number of buttons and accordingly, different types of actions are available.

Web interface: Quick access to the MSX-E system

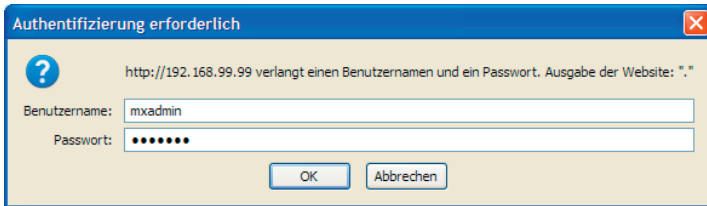
From the web interface of your MSX-E system, you can access the system quickly and manage your functions conveniently without programming.

To open the web interface of your MSX-E system, proceed as follows:

- Open a web browser (such as Mozilla Firefox, Internet Explorer, etc.) and enter the following address: **http://IP address of the Ethernet system.**

A login window is displayed.

- Enter "mxadmin" as the user name and password.



Do you have any questions?

Please find further information on our website:

www.addi-data.com.

Do not hesitate to call us or to send us an e-mail
(see front page for contact data).