ADDI-DATA®
SPIRIT OF EXCELLENCE

QUICK INSTALLATION

MSX-E3701 and MSX-E3700

Ethernet system for length measurement

02.04 - 08/2014

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Connecting the Ethernet system

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

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

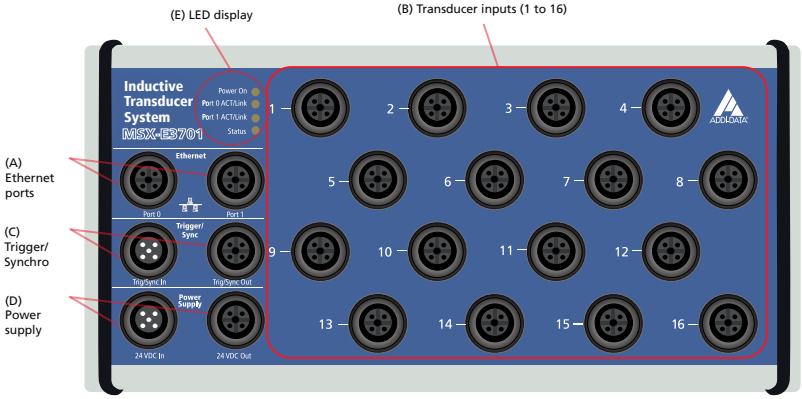
NOTICE!
Please ensure that the default IP address of the Ethernet system (192.168.99.99) is not assigned to another system on your network yet.

Starting the Ethernet system

D) Connect the Ethernet system to the power source using a power supply cable (e.g. CMX-20).
E) 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 during booting

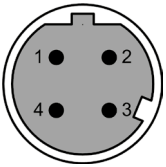
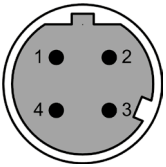
As soon as the "Status" LED lights green, you can install the software (see page 6).



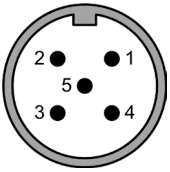
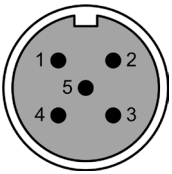
CMX-20: Power supply cable

Pin assignment

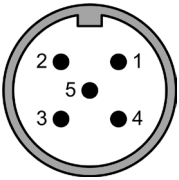
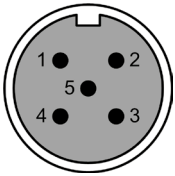
Ethernet

	Ethernet Port 0	Ethernet 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

	Trigger/Sync In	Trigger/Sync Out	Cable (purple)	
Pin No.	**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	Ground	Ground		
				

Power supply

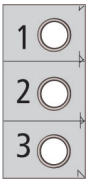
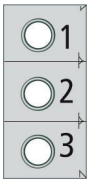
	Power Supply In	Power Supply Out	Cable (black)
Pin No.	**Connector, 5-pin, M12**	**Female connector, 5-pin, M12**	**Lead colour**
1	24 V	24 V	brown
2	24 V	24 V	white
3	Ground	Ground	blue
4	Ground	Ground	black
5	not connected	not connected	grey
			

MSX-E3700

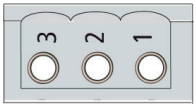
Ethernet

	Ethernet Port 0		Ethernet Port 1
Pin No.	**RJ45 connector**	**Pin No.**	**RJ45 connector**
1	TD0+	9	TD1+
2	TD0-	10	TD1-
3	RD0+	11	RD1+
4	not connected	12	not connected
5	not connected	13	not connected
6	RD0-	14	RD1-
7	not connected	15	not connected
8	not connected	16	not connected

Trigger/Synchro

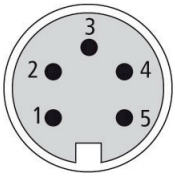
	Trigger	Synchro	
Pin No.	**3-pin terminal, 3.81 mm grid**	**3-pin terminal, 3.81 mm grid**	**Note**
1	Trigger input +	Synchro In	Twisted pair
2	Trigger input -	Synchro Out	
3	Ground	Ground	
			

Power supply

	Power Supply In	Power Supply Out
Pin No.	**3-pin terminal, 5.08 mm grid**	**3-pin terminal, 5.08 mm grid**
1	24 V	24 V
2	Ground	Ground
3	Shield	Shield
		

Transducer inputs

	Half-Bridge	LVDT	Mahr
Pin No.	**Female connector, 5-pin, M18**	**Female connector, 5-pin, M18**	**Female connector, 5-pin, M18**
1	OSC+	OSC+	OSC+
2	Ground	OSC-	Voltage input (transducer n)
3	Transducer signal	not connected	Current input (transducer n)
4	not connected	Transducer signal	Ground
5	OSC-	Ground	OSC-



Mahr version: compatibility code M
To avoid any confusion, a red ring is placed on the cable connector in addition to the letter code on the transducer.

Software tool “ConfigTools”

First steps

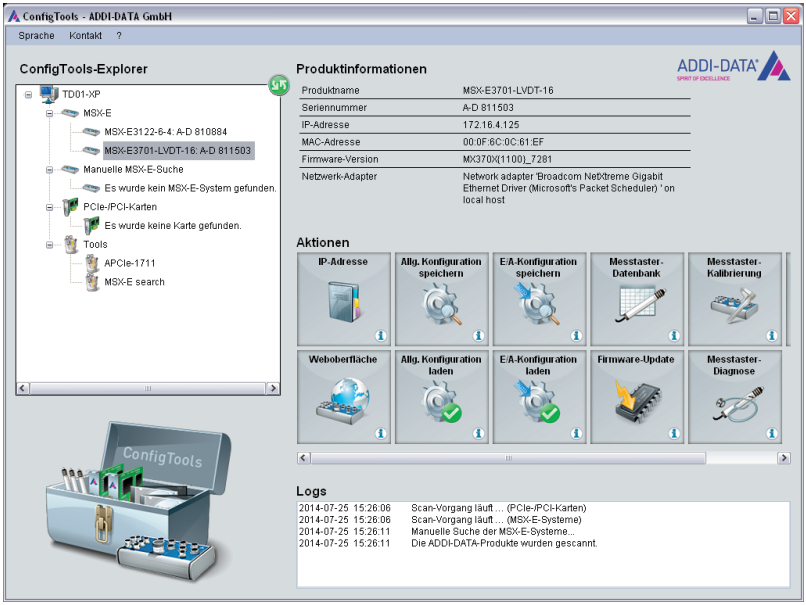
After connecting the required components to your Ethernet system and checking if the power supply is ensured, continue as follows:

- 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, for example, to your corporate network
- **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 the ADDI-DATA website under "Download / Driver download". The name of the downloaded file 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

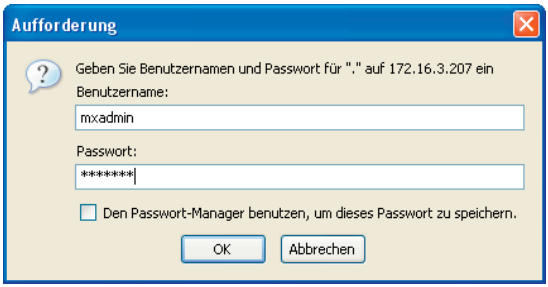
From the web interface of your MSX-E system, you can access the system quickly and manage your functions conveniently without programming.

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.



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www.addi-data.com.

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