



procella® 

LENGTH MEASUREMENT AND VISUALISATION

- Data acquisition with intelligent Ethernet I/O modules
- Visualisation and evaluation with procella
- For fast and reliable quality control of test parts



LENGTH MEASUREMENT AND VISUALISATION

Length measurement with intelligent Ethernet modules



With the intelligent Ethernet modules for length measurement MSX-E370x and the SPC software procella® by Q-DAS you can optimize your testing station fast and easily: All necessary settings can be configured with a simple mouse click. The plus: your test equipment is ready for use in no time at all.

YOUR BENEFITS

- Easy configuration of the Ethernet modules via their website
- Database with precalibrated transducers
- Data transmission via the company network (Ethernet)
- Fast and easy visualisation and evaluation of measurement values
- Value display: Min., Max., bar charts, virtual channels

The intelligent Ethernet modules MSX-E370x have been designed for length measurement tasks very close to the test item. They are perfectly suited for measurement directly at the measuring point, e.g. for manual inspection tasks. For this purpose, they feature robust housings and the IP 65 or IP 40 degree of protection.

Easy parametering

Since the MSX-E370x are integrated in the company network, you can access their website by entering their IP address. There you can define all settings needed for data acquisition.

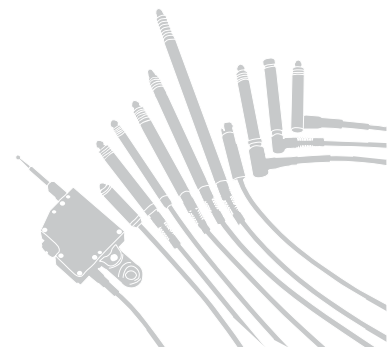
Precalibrated transducers

The Ethernet modules MSX-E370x are supplied with a calibration tool which allows you to select your transducers from a database of precalibrated transducers, to calibrate them and to test each channel.

MSX-E3701: IP 65

MSX-E3700: IP 40

- Acquisition of 4, 8 or 16 inductive displacement transducers, 24-bit resolution
- For half-bridge, LVDT or Mahr-compatible transducers
- Accuracy for Tesa GT21 < 1 µm
- Degree of protection IP 65 / IP 40, 0–60 °C, –40 °C to +85 °C on request
- LED status display for fast error diagnostics



Website of an MSX-E3701-HB-8 for module configuration

One web site – many services

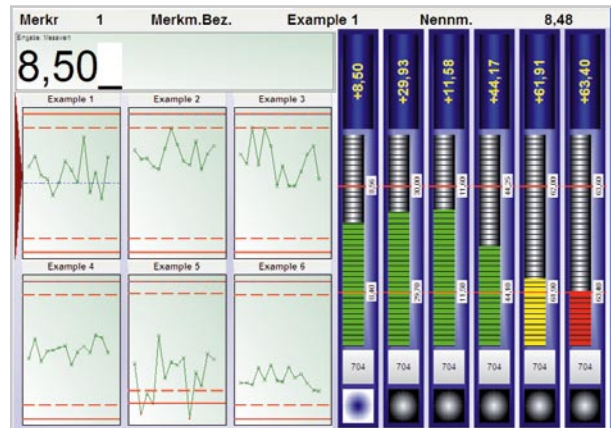
With the website of the Ethernet modules, you can define many of the settings that are necessary for your testing station:

- Setting the IP address in order to integrate the module into the company or production network
- Setting the measurement parameters: type of acquisition, number of channels, autostart function, start/stop of measurements
- Selecting and calibrating the transducers
- Changing the password

Fast visualisation of measurement data via procella®

Fast display of measurement data

The values acquired with the intelligent Ethernet modules MSX-E370x are directly recorded and displayed by procella®. The graphical display allows the operator to distinguish fast and reliably between "good" and "incorrect" parts. It is also possible to monitor the test procedure with an automatic alarm signal, e.g. if the values are out of the tolerance range. In order to avoid measuring errors, you can define implausible measurement values.

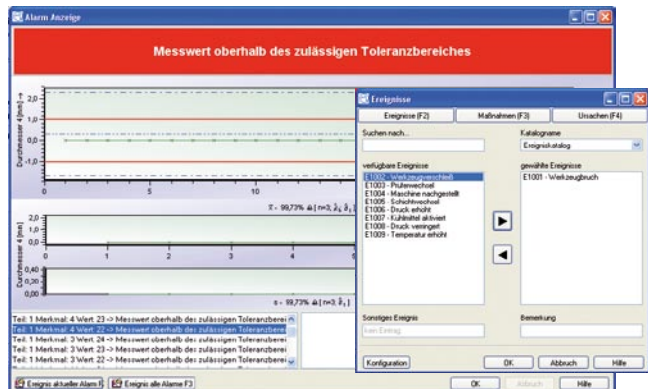


Visualisation of the measurement data with display of critical values (yellow) or values out of the tolerance range (red)

Easy to use

For the control of the measurement tasks, the operator is provided with a user-friendly visualisation interface. All necessary actions such as repeated measurements, entering additional data or event recording can be done by selecting predefined parameters. Since no keyboard entries are needed, there can be no typing errors.

In case the test station is used outside Germany by local operators, there are 20 languages available for the user interface.

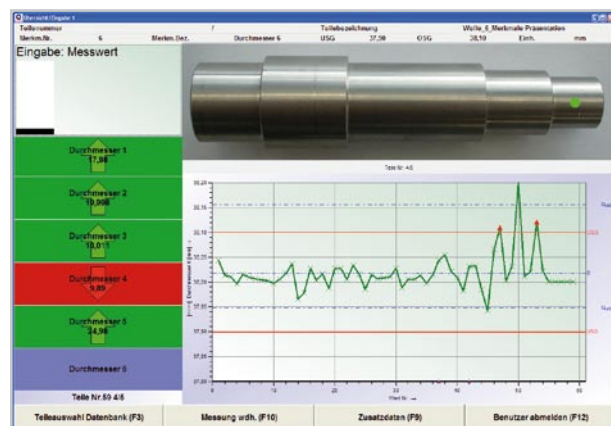


Alarm and event menu if the maximum permissible value is exceeded.

Immediate evaluation

Machines or parts to be tested can be displayed with pictures in procella®. The measuring points can also be exactly displayed in the picture, allowing the operator to identify the incorrect point at once, which is an advantage multi-gauge testing stations.

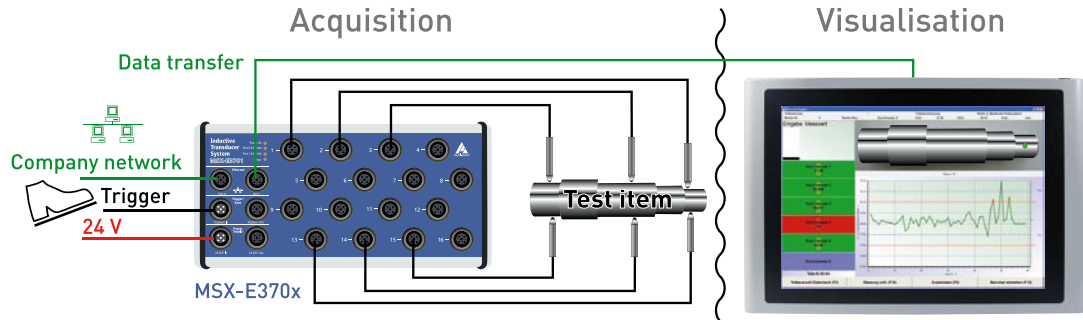
All measurement values can be provided with additional informations such as a time stamp and serial number. In a production hall with several testing stations, it is possible to add an identification number for each station. This additional information ensures transparent processes and guarantees traceability.



Picture of a test item: With multi-gauge testing stations, you can display several measuring points in the picture.

Combining hardware and software for a complete solution

The intelligent Ethernet modules MSX-E370x have been directly implemented in the procella® software by Q-DAS. Thus there is no need for programming a connection to the hardware and the user can concentrate exclusively on setting up his testing station.



Ethernet module overview

ADDI-DATA offers a wide range of intelligent Ethernet modules for length measurement. The MSX-E370x can be cascaded if they are used with testing stations that have more than 16 measuring points. The trigger signal which starts the acquisition can be transmitted from one module to another in the μ s range. In order to reduce wiring, the Ethernet and voltage supply signals are also transmitted.

MSX-E370x versions	Number of transducers	Type of transducers	Degree of protection
MSX-E3701-HB-16	16	Half bridge	IP 65
MSX-E3701-HB-8	8		
MSX-E3701-HB-4	4		
MSX-E3701-LVDT-16	16	LVDT	
MSX-E3701-LVDT-8	8		
MSX-E3701-LVDT-4	4		
MSX-E3701-M-8	8	Mahr compatible	
MSX-E3701-M-4	4		

MSX-E370x versions	Number of transducers	Type of transducers	Degree of protection
MSX-E3700-HB-16	16	Half bridge	IP 40
MSX-E3700-HB-8	8		
MSX-E3700-HB-4	4		
MSX-E3700-LVDT-16	16	LVDT	
MSX-E3700-LVDT-8	8		
MSX-E3700-LVDT-4	4		

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- Intelligent Ethernet modules MSX-E
- Visualization software procella®

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