

TENSION INSPECT

SOFTWARE



Operating Manual

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1.0 INSTALING TENSION INSPECT 3

1.1 System Requirements

Computer: PC

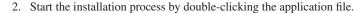
Operating system: Windows XP and higher (32 / 64 Bit)

Hard disk space: Approx. 200 MB

1.2 Installation: CD-ROM drive

To be able to restore the original files in case problems occur after the installation, you should make a backup of your hard disk contents before you start installing. In no event will Electromatic Equipment company be held liable for any data loss or damage.

1. Insert the CD-ROM with the Tension Inspect 3 program into the CD-ROM drive.

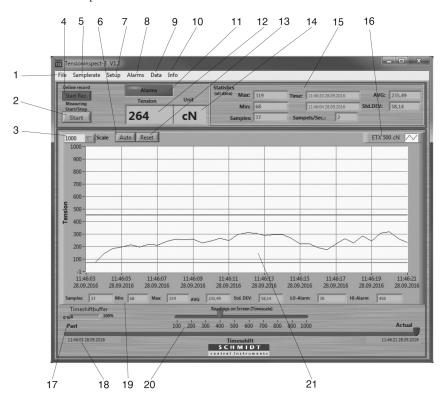




- 3. Follow the instructions on the screen, to install the software Tension Inspect 3 and the corresponding USB driver.
- 4. At the end, click the "Finish" button, to finish the installation process.

2.0 USING TENSION INSPECT 3

1. Double-click the TENSION INSPECT icon to start the program. The program window opens



Menu file	SAVE AS CSV	Section 8.0
		Section 8.0
Menu file		Tension Inspect 3
Button	START/STOP	Section 4.0
Choice box	SCALE	Section 6.0
Button	START REC.	Section 7.0
Menu samplerate	SAMPLERATE	Select the sampling rate
Button	AUTO	Section 6.0
Menu setup	SETUP	Section 3.0
Menu alarms	ENABLE ALARMS	Section 5.0
Menu alarms	SHOW ALARMS	Section 5.0
Menu alarms	CLEAR ALARMS	Section 5.0
Menu data	CLEAR DATA	Clear all measuring values
Menu data	CREATE HTML-REPORT	Section 7.0
Menu data	EXPORT SCREEN TO EXCEL	Section 7.0
Menu data	MEMORY REVIEW	Section 9.0
	Menu file Menu file Button Choice box Button Menu samplerate Button Menu setup Menu alarms Menu alarms Menu alarms Menu data Menu data Menu data	Menu file LOAD CSV Menu file EXIT Close Button START/STOP Choice box SCALE Button START REC. Menu samplerate SAMPLERATE Button AUTO Menu setup SETUP Menu alarms ENABLE ALARMS Menu alarms SHOW ALARMS Menu alarms CLEAR ALARMS Menu data CLEAR DATA Menu data CREATE HTML-REPORT Menu data EXPORT SCREEN TO EXCEL

	Menu info		Information about Tension Inspect 3
11	Display	ALARMS	Change to red, if the reading exceed or underrun the setpoint during a measuring
12	Display	TENSION	Current reading
13	Button	RESET	Section 6.0
14	Display	UNIT	Unit of measure of the readings
15	Display	STATISTICS	Display of statistical values of the
			measurement
16	Display	MODEL	Display the connected unit
17	Display	TIMESHIFTBUFFER	Section 6.0
18	Display	TIMESHIFT	Section 6.0
19	Display	STATISTICS DIAGRAM	Display the statistical values, shown currently
			at the graph.
20	Display	READINGS ON SCREEN	Section 6.0
21	Display	TENSION	Readings as graph, as well as the Hi/Lo
			Set-points (only when activated)

3.0 BASIC SETUP

Requirements:

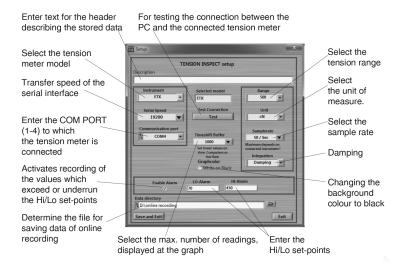
- 1. The required measuring unit is connected to the PC.
- 2. The measuring unit is switched on

To edit the settings:

1. Click on the menu SETUP to open the dialog box.

You can now either keep the default values preset in the input boxes or customize them for your specific requirements.

The figure below shows the factory-preset defaults for a tension meter model ETX-500.



4.0 START AND STOP THE TENSION VALUE DISPLAY

Requirements:

 Click on CLEAR DATA in the menu DATA. All readings shown in the TENSION display, if any, are cleared.

Start:

1. Click the START button to activate the display of tension values.

The button shows STOP.

Tension value display:

 TENSION display Current graph, as well as high set-point (red) and low set-point, if activated in the menu ALARMS or SETUP

TENSION display Current digital value

STATISTICS display Continuously updated statistics

STATISTICS DIAGRAM display Continuously updated statistics, of readings,

shown in the graph

Stop:

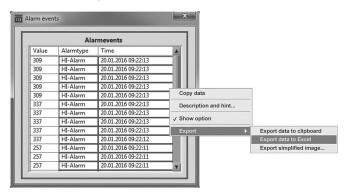
Click the now STOP button. The display of the tension values stops.
The button shows START..

5.0 HI / LO SET-POINTS

Tension Inspect 3 has a comparison function. Thereby the displayed value will be compared with the preset set-points. During exceeding or underrunning a set-point, the background of the display TENSION change to red. The background of the display NO ALARMS change the colour permanently to red and shows now ALARMS after exceeding or underrunning a setpoint for one time.

ENABLE ALARMS Activates recording of the values which exceed or underrun the Hi/Lo set-points

SHOW ALARMS By clicking SHOW ALARMS at the menu ALARMS the window "Alarm events" will be opened.



By opening the context menu in the window "Alarm events" the values exceeding or underrunning the set-points can be exported to excel by using the menu items "Export" and "Export data to excel".

CLEAR ALARMS By clicking CLEAR ALARMS in the menu ALARMS all values in the window "Alarm events" will be cleared.

6.0 GRAPH ADJUSTMENTS

SCALE The maximal tension value of the diagram can be

adjusted (Y-axis, starts at zero).

AUTO Automatic scaling of the Y-axis depending to the

measured tension values.

RESET Change of scaling from mode AUTO to SCALE

READINGS ON SCREEN To set the number of readings to be shown in the

diagram

(Timescale) (X-axis). The scroll bar turns to red, if more readings are

selected for the diagram than measured.

TIMESHIFTBUFFER Indicates in % the fill level of the memory. The maximal

numbers of readings will be set in the SETUP.

TIMESHIFT To select the timeframe of a series of measurements, that

should be displayed in the diagram. Is the setup Value of

READINGS ON SCREEN bigger or equal to the recorded readings, the scroll bar

cannot be moved.

7.0 PRINT AND DATA TRANSFER

Print:

- Click CREAT HTML-REPORT in the menu DATA to open the print preview.
- 2. Click the PRINT THIS PAGE button to open the printer setup box.

The print-out includes the statistical data of the series of measurements, the current displayed graph and the statistical values of the graph.

Data transfer:

 Clicking EXPORT SCREEN TO EXCEL in the menu DATA copy the readings, which are displayed at the graph to an excel file (reading, date, ETX 1000 cN Unit cN Statistic (all Data):

- Start Time : 28.09.2016 11.46.03

- Last Samplingtime : 29.09.2016 11.46.03

- Last Samplingtime : 29.09.2016 11.46.21

- Manche of characteristics : 30.0916 11.46.21

- Manche of characteristics : 30.0916 11.46.20

- Min : 68.00 Time : 28.09.2016 11.46.04

- ANC : 253.64

- Start DEV: 56,14

- Created on 6720/0116

Tensioninspect Report

time). With the infixed readings, a graph can be created in the Excel file.

8.0 SAVE AND LOAD THE READINGS

Save:

The statistical data, as well as the single readings of a measuring can be saved after the measuring ends as CSV file, by clicking SAVE AS CSV in the menu FILE.

Load:

Click LOAD CSV in the menu FILE and open the required file. The statistical data of the saved measuring, the graph and the statistical data of the graph are displayed in Tension Inspect 3



It is possible to add readings to an existing file. In this case open the file and start a new series of measurements. The new readings will be added in the diagram. After this store the complete CSV file again. If any readings are in the internal memory before opening the existing file, the internal memory will be overwritten.

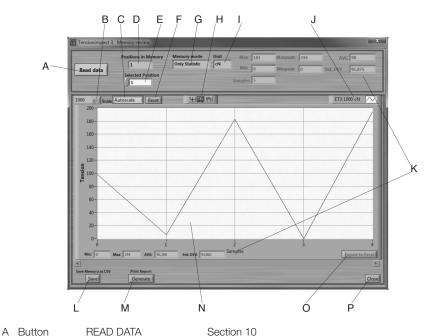
(Available only for ETX, ETPX and DTX)

9.0 MEMORY REVIEW

With the TENSION INSPECT 3 program you can download all the tension data stored in the memory of the connected tension meter.

- 1. Start the DOWNLOAD
- 2. Click MEMORY REVIEW in the menu DATA.

The MEMORY-REVIEW window opens.



Choice box	SCALE	Section 10
Button	AUTOSCALE	Section 11
Display	POSITON IN MEMORY	Number of saved series of measurement
Choice box	SELECTED POSITION	Selected series of measurement
Button	RESET	Section 10
Display	MEMORY MODE	Used memory mode during the measuring
Button	ZOOM	Section 10
Display	UNIT	measuring unit of the readings
Display	GERÄTETYP	Display the connected unit
Display	STATISTICS	Statistical data of the displayed series of measurement
Button	SAVE	Section 12
Button	GENERATE	Section 11
Display	TENSION	Readings as graph
Button	EXPORT TO EXCEL	Section 11
Button	CLOSE	Close MEMORY-REVIEW
	Button Display Choice box Button Display Button Display Display Display Button Button Button Button Button Button Button Display Button	Button Display Choice box Button Button Button Button Button Button Button Button Display Button Display Display Display Button Display Display Button Butto

10.0 DOWNLOAD TENSION DATA FROM THE ETX, ETPX, DTX TO A PC

Requirements:

- 1. Tension meter connected to the PC.
- 2. Tension meter switched on.

To download the tension data:

1. Click the READ DATA button. The tension data stored in the tension meter are read into the PC.

Tension value display:

Display TENSION Graph of the displayed series of measuremnts Display STATISTICS Statistical data of the displayed series of measurements

Graph adjustments

SCALE Manual scaling of the Y-axis which starts at "zero".

This feature can be activated by pressing RESET.

AUTOSCALE Automatic scaling of the Y-axis depending to the displayed

readings of the diagram.

RESET Activates the scaling, which is set in the pop-up SCALE.

ZOOM A big number of zoom features can be selected to enlarge a selected

frame of the diagram.

NOTE: The button ZOOM and RESET work only if AUTOSCALE is not activated.

11.0 PRINT AND DATA TRANSFER

Print:

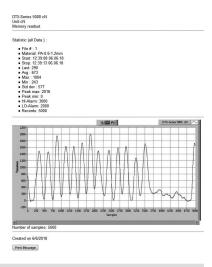
- Click the GENERATE button to open the print review.
- Click the PRINT THIS PAGE button to open the printer setup box.

The print-out includes the statistical data of the series of measurements and the current displayed graph.

Data transfer:

The EXPORT SCREEN TO
 EXCEL button copies the readingsof
 the desired series of measurements
 to an Excel file (reading, date, time).
 With the infixed readings, a graph
 can be created in the Excel file.

Tension Inspect Report



12.0 SAVE THE READINGS

With the button SAVE stored values (statistics and series of measurements) of the connected tension meter can be downloaded and stored as CSV file. The individual series of measurement can be selected.

Readings which have be downladed and be stored as CSV file cannot be related to Tension Inspect 3.

13.0 ONLINE RECORDING

- Click first the button START/STOP and afterwards START/STOP REC to start the
 continuously data recording. The recorded data is now saved as CSV file. If the file
 reaches a size of 10 MB, a new CSV file will be generated automatically for further
 data aquisition and saving.
- By clicking the button START/STOP the continuously data aquisition is paused. Clicking START/STOP again will continue the recording. The data will be saved in the last CSV file.
- By clicking the button START/STOP REC the continuously data aquisition is finished. After clicking START/STOP REC again the recorded data will be saved in a new CSV file.
- 4. The location for saving the files can be determined in the menu SETUP.

14.0 WARRANTY

ELECTROMATIC Equipment Co., Inc. (ELECTROMATIC) warrants to the original purchaser that this product is of merchantable quality and confirms in kind and quality with the descriptions and specifications thereof. Product failure or malfunction arising out of any defect in workmanship or material in the product existing at the time of delivery thereof which manifests itself within one year from the sale of such product, shall be remedied by repair or replacement of such product, at ELECTROMATIC's option, except where unauthorized repair, disassembly, tampering, abuse or misapplication has taken place, as determined by ELECTROMATIC. All returns for warranty or non-warranty repairs and/or replacement must be authorized by ELECTROMATIC, in advance, with all repacking and shipping expenses to the address below to be borne by the purchaser.

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