#### Model ETX

ETX ETPX DTX DTMX KXE MST TS-232 MZ-232

MZ-USB MZ-422 FS-232 FS-USB FS-422 FSR-422 FS-WLAN SCD-1

# » Tension Inspect 3« Instruction Manual

SC-PM





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#### 1 The »Tension Inspect 3« program

#### 1.1 System requirements

Computer: PC

Operating system: Windows 7 and higher (32/64 Bit)

Hard disk space: Approx. 200 MB Installation: CD-ROM drive

#### 1.2 Installing »Tension Inspect 3«



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 Hans Schmidt & Co GmbH be held liable for any data loss or damage.

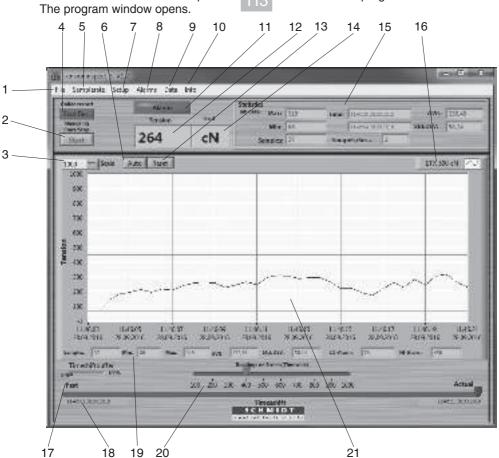
- 1. Insert the CD-ROM with the »Tension Inspect 3« program into the CD-ROM drive.
- 2. Start the installation process by double-clicking the application file.



- 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.

#### 1.3 Using »Tension Inspect 3«

icon to start the program. - Double-click the »Tension Inspect 3« The program window opens.



1	Menu file	Save as CSV	Chapter 1.3.6
	Menu file	Load CSV	Chapter 1.3.6
	Menu file	Exit	Close »Tension Inspect 3«
2	Button	Start/Stop	Chapter 1.3.2
3	Choice box	Scale	Chapter 1.3.4
4	Button	Start Rec.	Chapter 1.3.8
5	Menu samplerate	Samplerate	Select the sampling rate
6	Button	Auto	Chapter 1.3.4
7	Menu setup	Setup	Chapter 1.3.1
8	Menu alarms	Enable Alarms	Chapter 1.3.3
	Menu alarms	Show Alarms	Chapter 1.3.3
	Menu alarms	Clear Alarms	Chapter 1.3.3
9	Menu data	Clear Data	Clear all measuring values
	Menu data	Create HTML-Report	Chapter 1.3.5
	Menu data	Export Screen to Excel	Chapter 1.3.5
	Menu data	Memory Review	Chapter 1.3.7

1.3 Using »Tensi	ion Inspect 3« (cont.)	
10 Menu info		Information about »Tension Inspect 3«
11 Display	Alarms	Change to red, if the reading exceed or underrun the setpoint durring a measuring
12 Display	Tension	Current reading
13 Button	Reset	Chapter 1.3.4
14 Display	Unit	Unit of measure of the readings
15 Display	Statistics	Display of statistical values of the measuremer
16 Display	Model	Display the connected unit
17 Display	Timeshift Buffer	Chapter 1.3.4
18 Display	Timeshift	Chapter 1.3.4
19 Display	Statistics Diagram	Display the statistical values, shown currently at the graph.
20 Display	Readings on Screen	Chapter 1.3.4
21 Display	Tension	Readings as graph, as well as the Hi/Lo

### 1.3.1 Basic settings

#### Requirements:

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

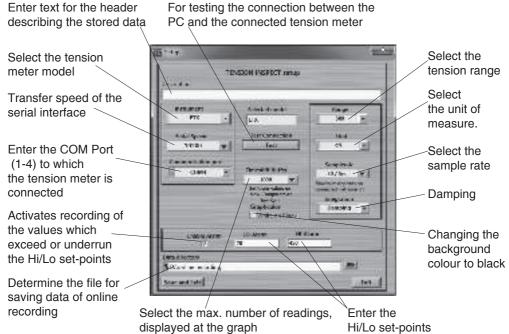
#### To edit the settings:

- 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.

Set-points (only when activated)

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



rement

#### 1.3.2 Start and stop the tension value display

#### Requirements:

- Click on Clear data in the menu Datat.

All readings shown in the Tension display, if any, are cleared.

#### Start:

- 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 now the Stop button.

The display of the tension values stops.

The button shows Start.

#### 1.3.3 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 Alarm at the menu Alarms the window

"Alarm events" will be opend.



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.

#### 1.3.4 Graph adjustments

Scale The maximal tension value of the diagram can be adjusted

(Y-axis, starts at zero).

Automatic scaling of the Y-axis depending to the measured Auto

tension values.

Change of scaling from mode Auto to Scale Reset

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.

Indicates in % the fill level of the memory. The maximal Timeshift Buffer

numbers of readings will be set in the Setup.

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

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

Readings on Screen bigger or equal to the recorded

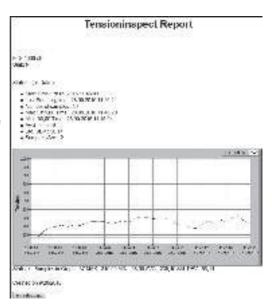
readings, the scroll bar cannot be moved.

#### 1.3.5 Print and data transfer

#### Print:

- Click Creat HTML-Report in the menu Data to open the print preview.
- 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, time).
 With the infixed readings, a graph can be created in the Excel file.

#### 1.3.6 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.

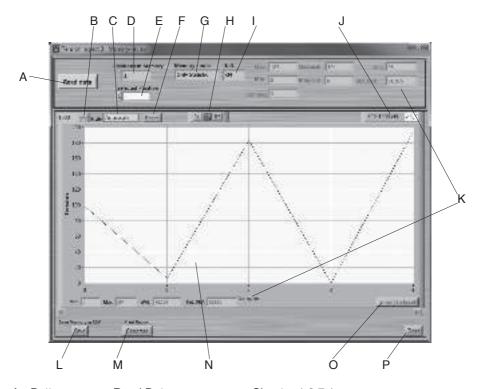
#### 1.3.7 Memory review

(available only for ETX, ETPX and DTX)

With the »Tension Inspect 3« program you can download all the tension data stored in the memory of the connected tension meter.

#### Start the download

- Click Memory Review in the menu Data. The Memory Review window opens.



Α	Button	Read Data	Chapter 1.3.7.1
В	Choice box	Scale	Chapter 1.3.7.2
С	Button	Autoscale	Chapter 1.3.7.2
D	Display	Position in Memory	Number of saved series of measurement
Ε	Choice box	Selected Position	Selected series of measurement
F	Button	Reset	Chapter 1.3.7.2
G	Display	Memory Mode	Used memory mode during the measuring
Η	Button	Zoom	Chapter 1.3.7.2
1	Display	Unit	measuring unit of the readings
J	Display	Type of Device	Display the connected unit
Κ	Display	Statistics	Statistical data of the displayed series of
			measurement
L	Button	Save	Chapter 1.3.7.4
M	Button	Generate	Chapter 1.3.7.3
Ν	Display	Tension	Readings as graph
Ο	Button	Export to Excel	Chapter 1.3.7.3
Ρ	Button	Close	Close Memory Review

#### 1.3.7.1 Download the tension data from the ETX, ETPX and DTX to the PC Requirements:

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

#### To download the tension data:

- 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

#### 1.3.7.2 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.

Activates the scaling, which is set in the pop-up Scale. Reset

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

frame of the diagram.



The button Zoom and Reset work only if Autoscale is not activated.

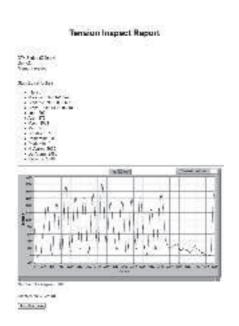
#### 1.3.7.3 Print and data transfer Print.

- 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 readings of the desired series of measuremetns to an excel file (reading, date, time). With the infixed readings, a graph can be created in the Excel file.



#### 1.3.7.4 Save the readings

#### Save:

 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«

#### 1.3.8 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.
- The location for saving the files can be determined in the menu Setup.

#### 2 Correspondence

Should you have any questions regarding the program or operating instructions, or their use, please indicate above all the software version number.

## CHECKLIN MEASURE





Torque Meter



Tachometer



Speed- and Lengthmeter



Electronic Lengthmeter



Stroboscope



Screen Printing Tension Meter



Thickness Gauge



Yarn Package Durometer and Shore Durometer



Sample Cutter



Balance



Moisture Meter



Leak Tester

## HECKLINE

ELECTROMATIC EQUIPMENT

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