

# MANUAL

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## Software KL ReadOut

## Installation Instructions

### Windows XP

- Put in the CD in a CD-Drive
- If you use a 32Bit system start KL\_setup\_x86.exe
- If you use a 64Bit system start KL\_setup\_x64.exe
- Follow the instructions

If there is no COM – Port at the PC, a short message appears.  
In this case please install a USB – COM Converter

By using a UAC 110 connect it now to a free USB Interface.  
For driver look to: c:\drivers

*Start Software “EFM\_read\_out.exe”*

### **Short Description** (Program)

Setup => Select the COM Port connected to your device (only by using TOM 600 or CPM 374).

Device => By TOM or CPM choose “Start”.

=> By UAC 110 => Select the connected device and the function then select the chosen device range.

View => Select Chart or Display.

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Start / Stop => Start / Stop the Measure transmission.

Reset => Erase the measures.

Exit => Close this window.

# Operating manual

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with UAC 110

E-Field Meter or Voltmeter mode

## *CHART*

- Start => Start the measurement reading and chart record.
- Break => Stopped the measurement reading and the cart record without delete the maximum values. After a new start the measurement continues.
- Reset => Delete the maximum values and the chart and set back to start position.
- Exit => Close the window

## *Display*

- Start => Start the measurement reading.
- Break => Stopped the measurement reading without delete the maximum values.
- Reset => Delete the maximum values.
- Exit => Close this window.

pos.maximum => Displays the positive maximum value after pressing the Start button.

neg..maximum => Displays the negative maximum value after pressing the Start button.

measurement => Displays the running measurement.

The icons in the TOP – line are to handle the results and the chart.

The chart is saved as \*.tee. Please use the TeeChartOffice Software on the CD to handle it.

## CPM 374 Mode

- Setup => In Setup you can choose the parameters. With Read Setup the parameters from the CPM 374 can be read out.
- Start Measure => Starts a new measurement with the selected parameters.
- View chart => After the end of a measurement you can display the discharge chart.
- Break => Interrupts the running measurement.
- Read File => To readout the saved files from the CPM 374.
- Info => Displays the parameters.
- Clear Display => Delete the Display.
- Exit => Close this window.
- Results => After end of the measurement the results will be displayed.
- Save results => Save the results in a \*.csv file. You can add the results in the same file.

The selected Parameter for the CPM 374 will be set after the View Window open!

## TOM 600 Mode

- Init => After connect the TOM 600 or first call of the software you have to make this initialization. The unit details will be displayed in the Info window after that.
- Setup => In Setup you can choose the parameters. By Timer = On it opens a new windows for the timer parameters.
- Start => Starts a new measurement with the selected parameters.
- Stop => Interrupts the running measurement by Timer = ON.
- Read File => To readout the saved files from the TOM 600. First select the range file numbers. Then add a comment to each file.
- Reset => Generates a "RESET" at the TOM 600.
- Save => Save the results in a \*.csv file. You can add the results in the same file.
- Exit => Close this window.

## **SETUP – File**

In the Setup-File in the path: *c:\Programme\EFM ReadOut* the parameters of the measurement can be modified.

Delta\_U=300                      max. Offset (Bit) between two Measures

Average\_U=1                    numbers of measures to built the average

Sampling\_Time\_Chart=xxx    for Chart in ms

Sampling\_Time\_Display=xxx   for Display in ms

## **Save the measures**

Write a comment of the measuring place into the Common window. (e.g. Production1 Table1)

The file is saved as a CSV file. You can handle it for example with excel.

New measurements saved into the same file will be added into a new line.

Device: CPM-V6.12/02.10    Serial No.: 05010409    Cal.Date: 15-11-2010									
Date	Time	CPM-Mode	Start (V)	Stop (V)	Offset (sec)	Decay time pos.(sec.)	Decay time neg.(sec.)	Offset (V)	Comment
08.12.2010	20:36:55	Auto	1000	100	10	10,9	5,3	-125	Bank 1
08.12.2010	20:36:55	Auto	1000	100	10	10,9	5,3	-125	Bank 1

## **WST 100 Mode**

This Software is self-explanatory.

If you want to delete all data's after read out, please switch the square in front of

„Delete statistic all data after transfer“

Follow the software instructions !