Instruction Manual

Service Software

testo 270_v2014

CSkm/ 03.2015/ v1.01

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1.0 General Information

The service software is designed for WIN 7, 32-bit systems.

The service software is available only in English language.

2.0 Installation Hints

It is not allowed to use blanks or any special characters inside the installation path.
Otherwise the service software firmware update feature will not work correctly.

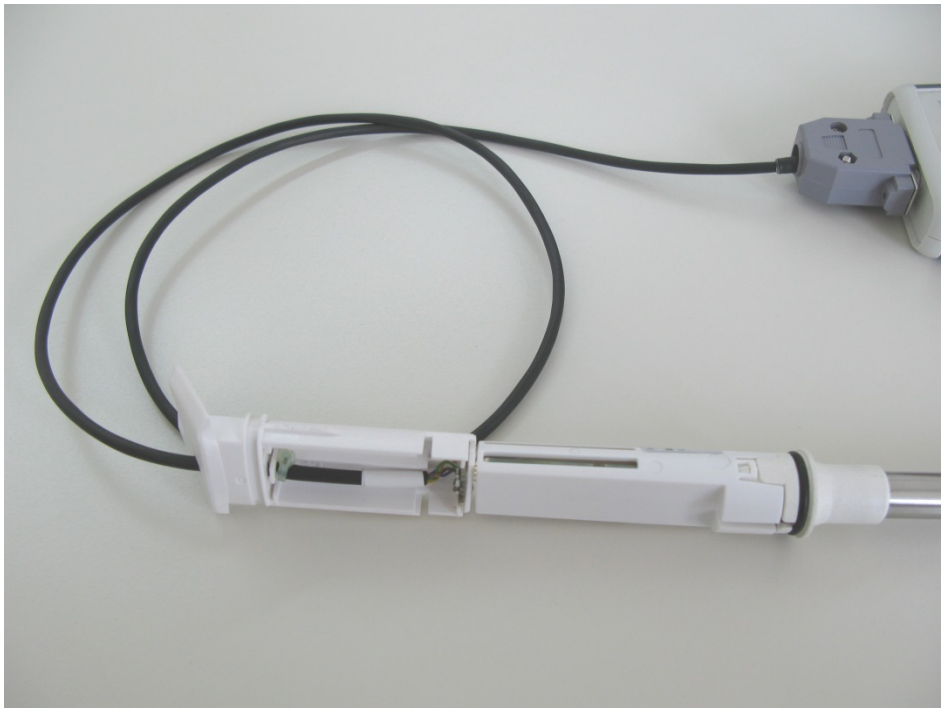
Example of a correct wording of the installation path.

C:\temp\Servicesoftwaretestinstallation\270_2014\ServicesoftwareT270_2014\ServicesoftwareT270_2014.exe.

3.0 Communication

The communication between the testo 270_v2014 and the PC is done via the Universal Service-Adapter 0554 6600 and the new service-adapter cable 0449 2750.

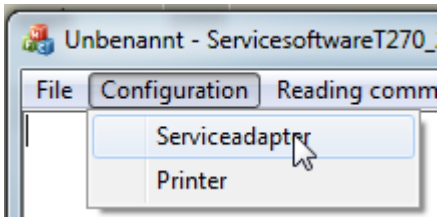
In order to do a firmware update of the probe it is required to connect the service adapter cable 0449 2750 directly at the probe socket das shown on the photograph.

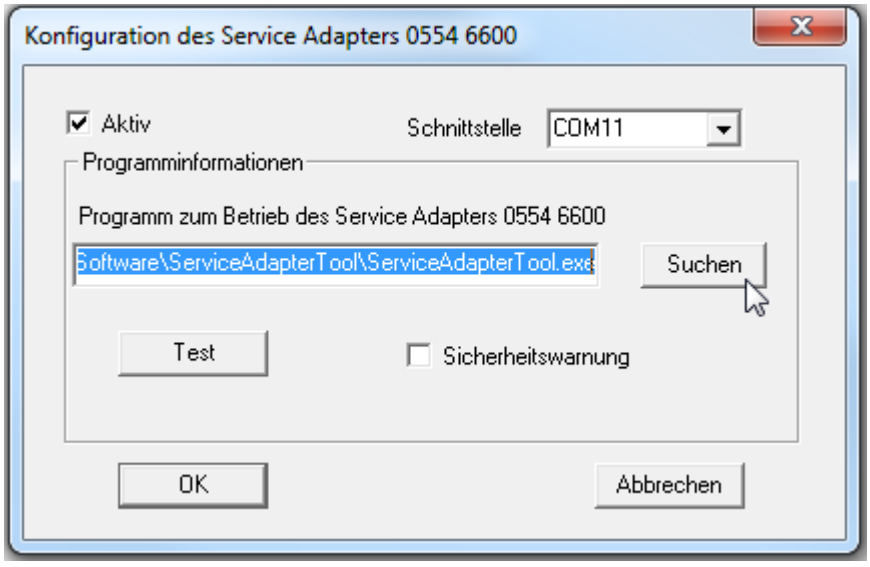


4.0 Configuration service software

4.1 Control of the Universal Service-Adapter

In order to establish a correct communication, the ServiceAdapterTool.exe must be installed as well. The ServieAdapterTool.exe software must be linked in the service software testo 270.

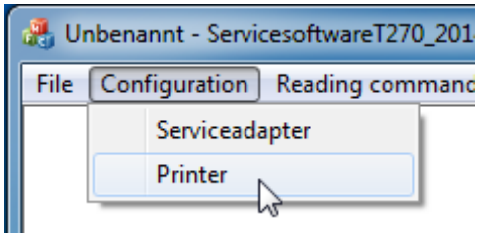




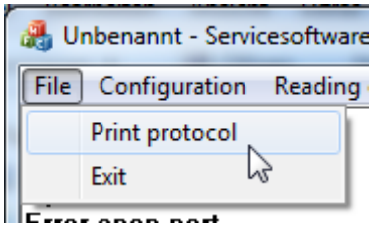
ATTENTION: A manually configuration or a fixed Service adapter setting will not lead to a communication. The communication will only function in case the Service AdapterTool.exe is embedded as shown above.

4.2 Configuration Printer / printing a calibration protocol

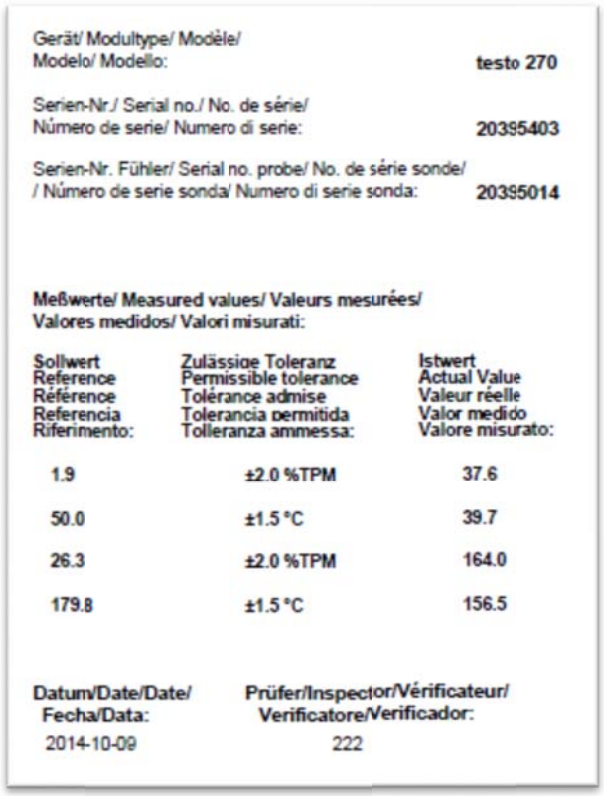
At first select the printer what should be used for to print out the calibration protocol.



The calibration protocol printing feature will be available after an instrument and probe is recognised by means of the reading Command identification.



The purpose of this feature is to offer a printout of the test results after exchanging a new spare probe, or after any other service works at customer services at testo AG, Lenzkirch.



Gerät/ Modultype/ Modèle/
Modelo/ Modello: **testo 270**

Serien-Nr./ Serial no./ No. de série/
Número de serie/ Numero di serie: **20395403**

Serien-Nr. Fühler/ Serial no. probe/ No. de série sonde/
/ Número de serie sonda/ Numero di serie sonda: **20395014**

**Meßwerte/ Measured values/ Valeurs mesurées/
Valores medidos/ Valori misurati:**

Sollwert Reference Référence Referencia Riferimento:	Zulässige Toleranz Permissible tolerance Tolérance admise Tolerancia permitida Tolleranza ammessa:	Istwert Actual Value Valeur réelle Valor medido Valore misurato:
1.9	±2.0 %TPM	37.6
50.0	±1.5 °C	39.7
26.3	±2.0 %TPM	164.0
179.8	±1.5 °C	156.5

**Datum/Date/Date/
Fecha/Data:**
2014-10-09

**Prüfer/Inspector/Vérificateur/
Verificatore/Verificador:**
222

5.0 Using the service software

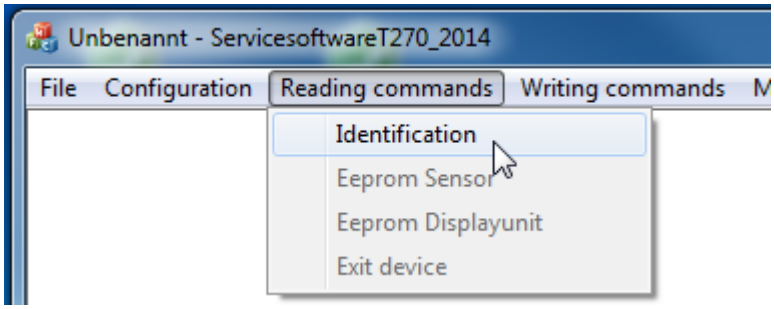
5.1 preconditions

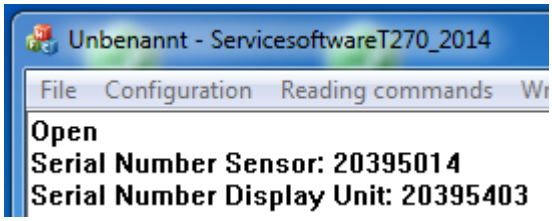
Universal Serviceadapter configuration is done.

The testo 270_v2014 is connected via service cable 0449 2750 with the Serviceadapter 0554 6600.

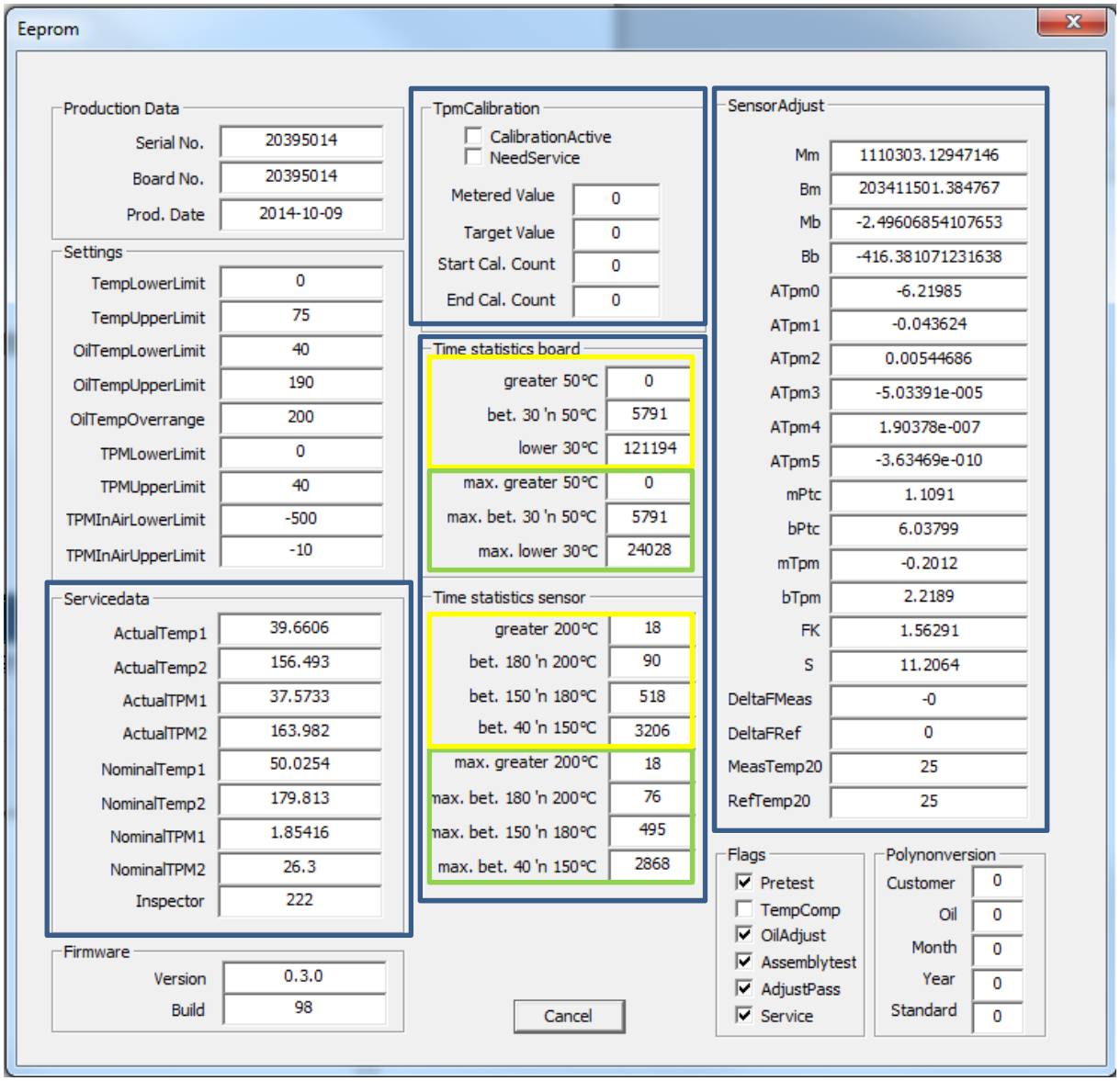
5.2 Reading Command Identification

After the successful identification of the connected devices, the service software will release all the possible further features.





5.3 Reading Commands Eeprom Sensor



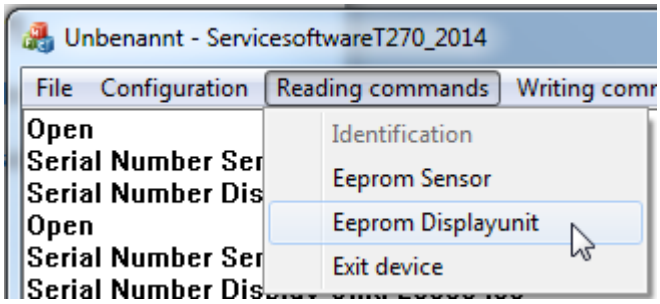
TpmCalibration: This are the adjustment coefficients resulting of a customer`s adjustment in reference oil. Empty boxes or „0“ are telling that now customer`s adjustment was done, and the only the original adjustment data are used for the measurement results.

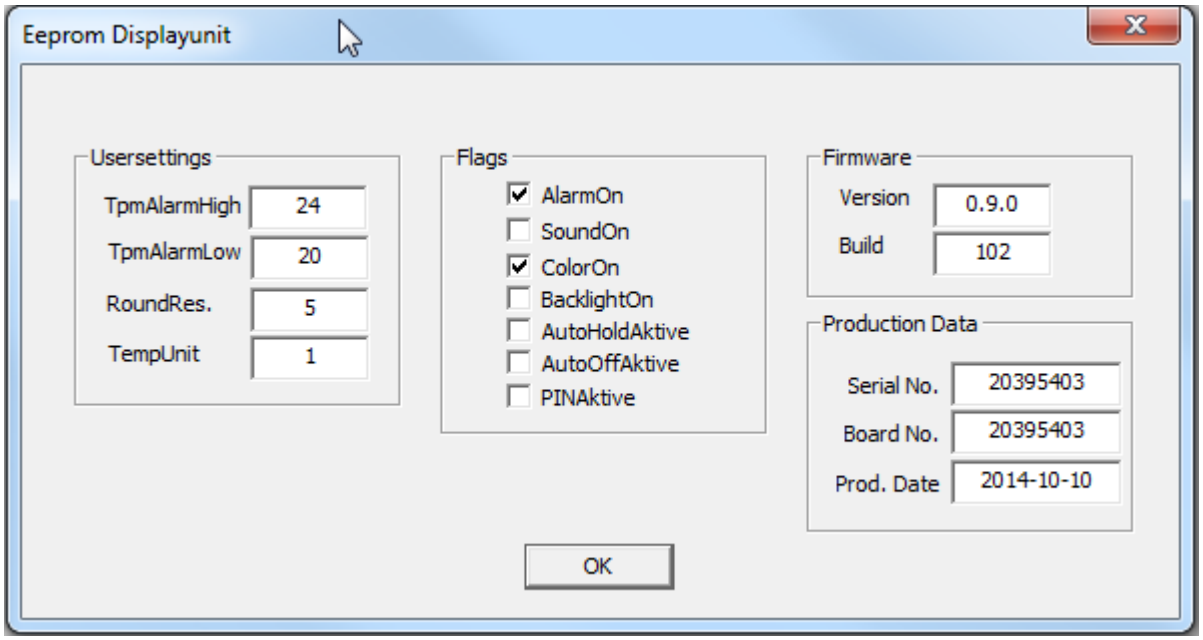
SensorAdjustment: Show the sensor channel values at the different factory adjustment points.

Servicedata: Show the test results (Protocol values) of the last factory adjustment at testo AG, Lenzkirch.

Time statistics: Show the duration in minutes of the pcb or the sensors was kept inside the respective temperature ranges. The boxes what are named with “Max.“ show the longest measured duration inside the respective temperature range.

5.4 Reading Commands Eeprom Displayunit

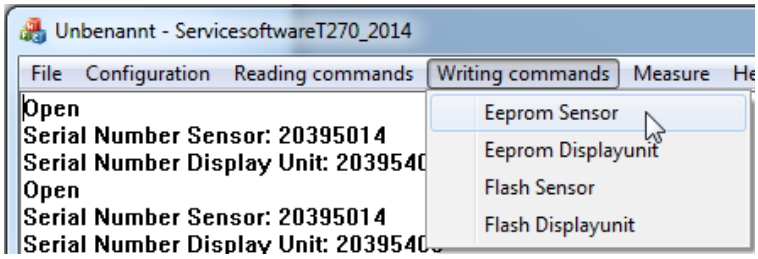


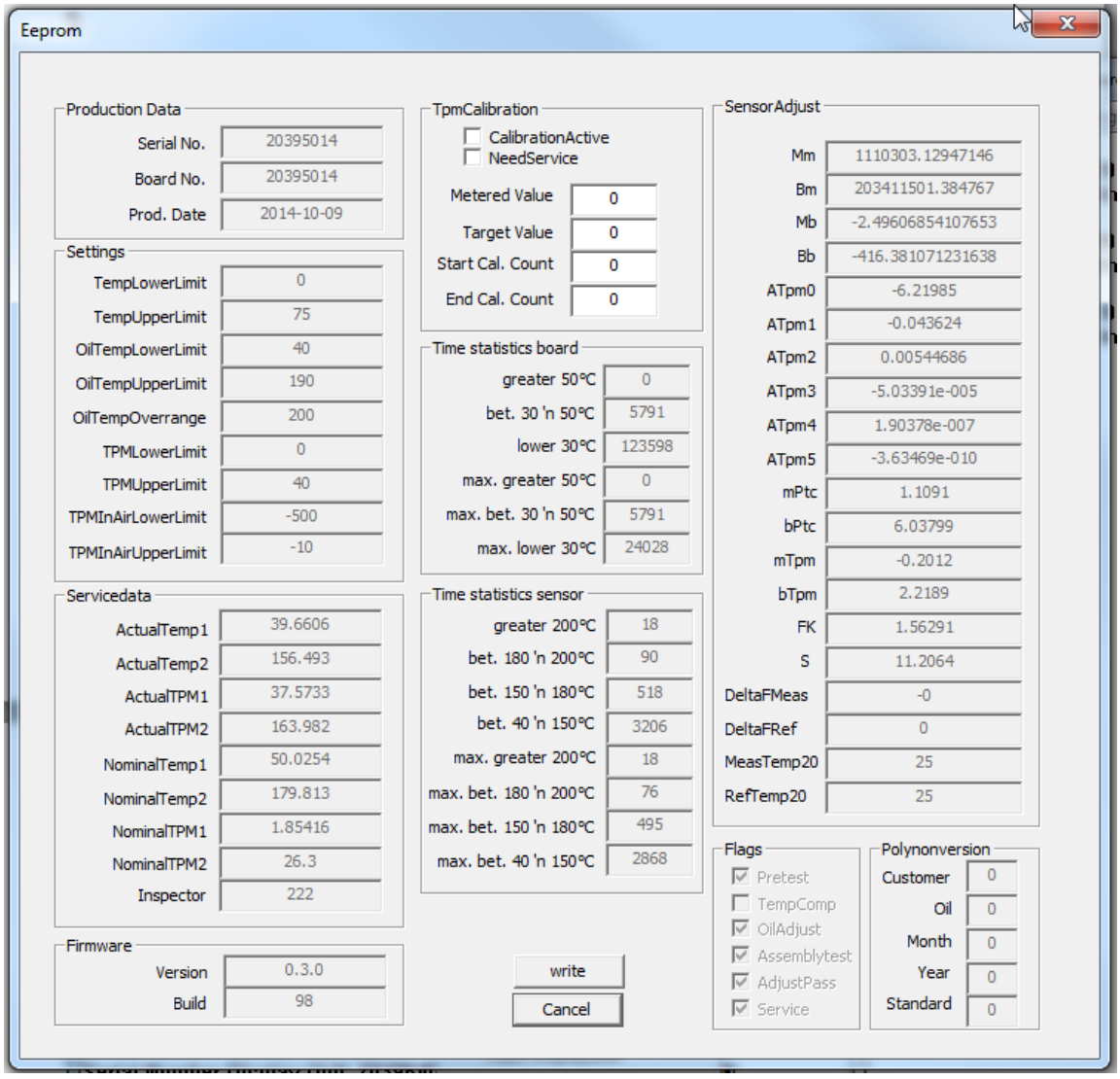


This feature shows the current alarm settings, and the current firmware revision.

Production Data: The display units serial number (Serial No.) and the pcb-serial number (Board No.) are identically after production. In case this numbers differ, the display unit once received a new pcb by one of the service offices. The production date always refer to the pcb data.

5.5 Writing Commands Eeprom Sensor

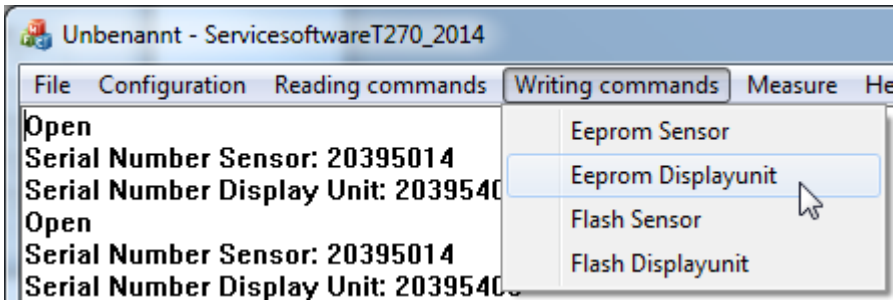


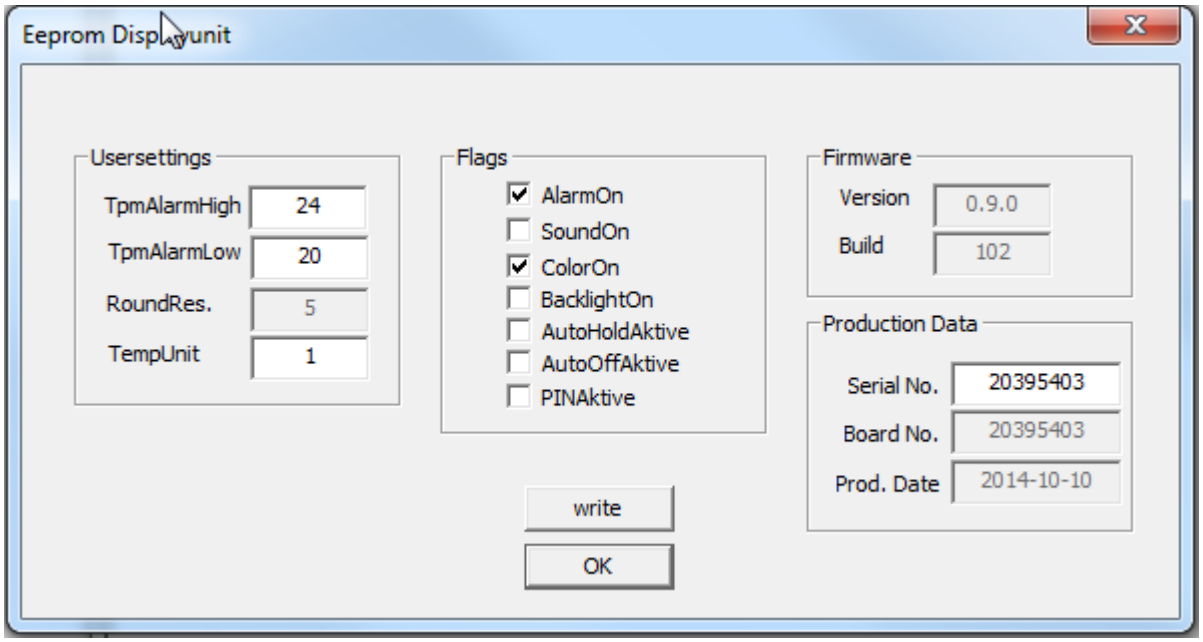


Only the white boxes can be modified.

TpmCalibration: In case all boxes are set back to the configuration as above, there is no customer`s adjustment effecting the measurement. Instead of this only the adjustment coefficients of the last factory adjustment are valid.

5.6 Writing Commands Eeprom Displayunit





This feature enables the alarm settings, and the temperature unit setting. (1 = °C, 2= °F).

In case of a pcb exchange the service staff need to enter the display unit serial number according to the display unit type label.

5.7 Writing Commands Flash Sensor / Flash Displayunit - Firmwareupdate testo 270_v2014 by service software

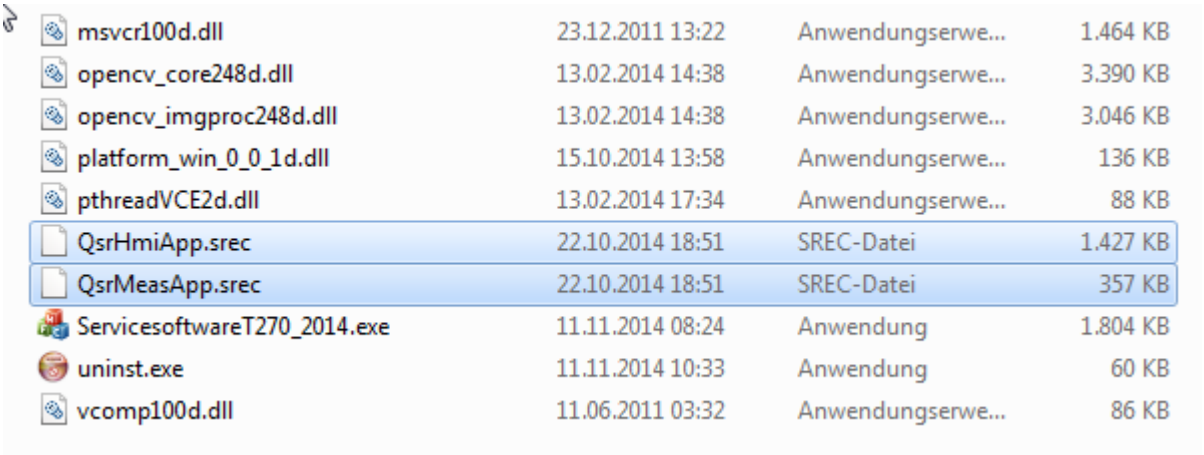
Preparation

The firmware files what should be used for the fw-update must be paste into the installation directory of the service software. The wording of the srec-firmware files must not be changed.

QsrHmiApp.srec = FW Display Unit

QsrMeasApp.srec = FW Probe

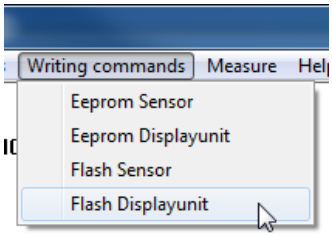
Example: Installation directory with the FW-files.

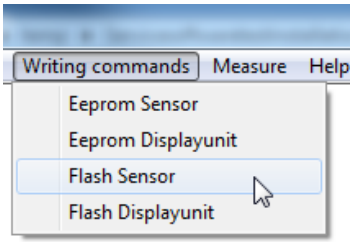


ATTENTION: before starting a **Probe-Update** „Flash Sensor“ the probe must be separated from the display unit and must be connected via adapter cable 0449 2750 to the Universal Service adapter (See: Communication).

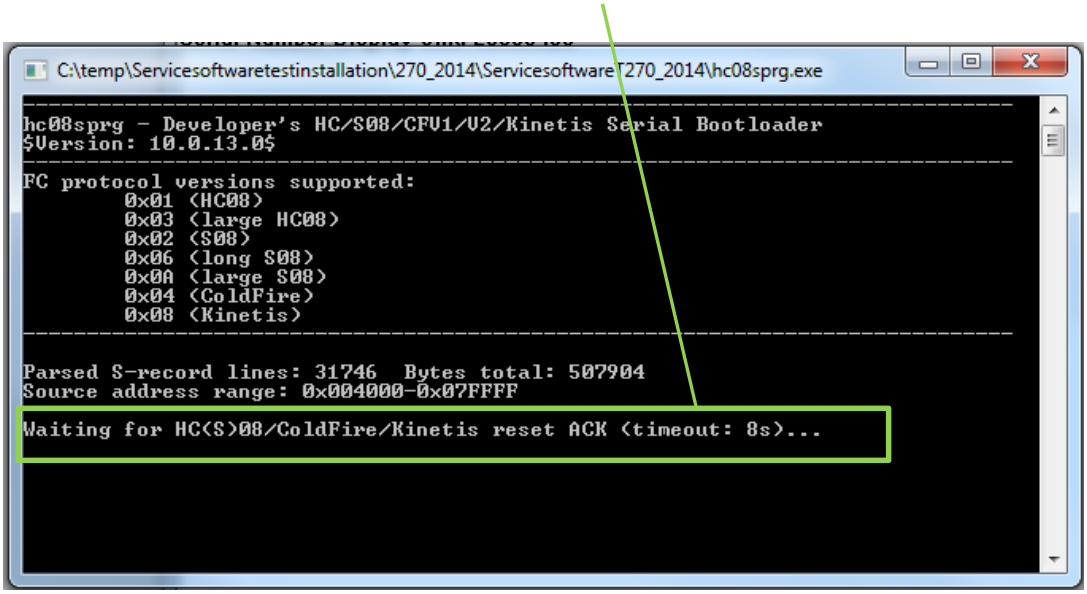
FW-Update sequence

1. Recognice the devices (Display Unit with Probe) via reading command Identification. (Flash Sensor: connect the probe via 0449 2750).
2. Choose Writing Command „flash …“.

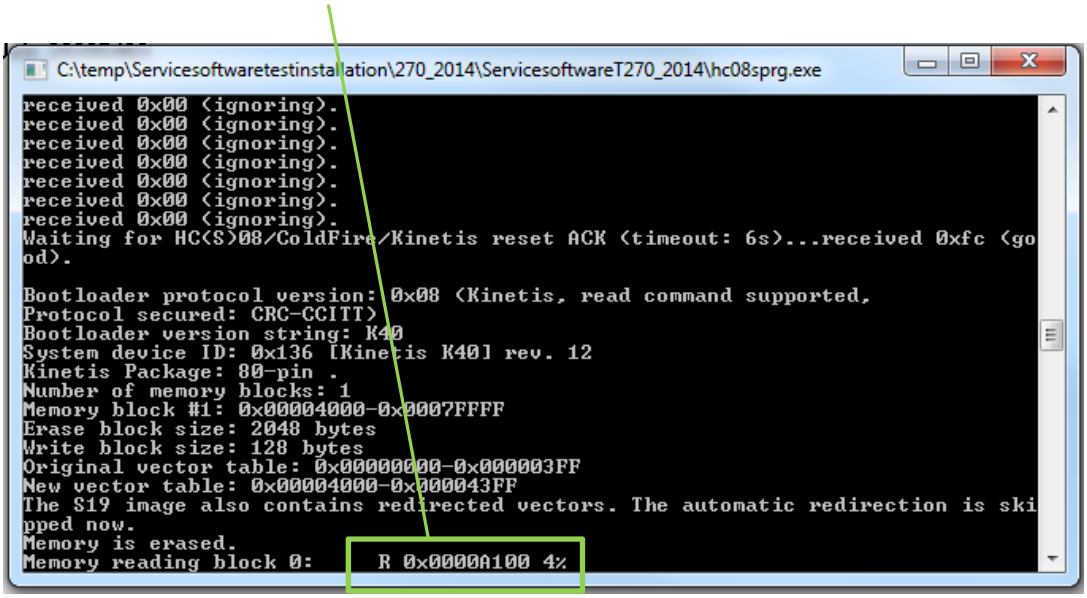




3. The embedded flash program will start up.
4. Disconnect the device for a sec. while the timeout count-down, and connect it again.

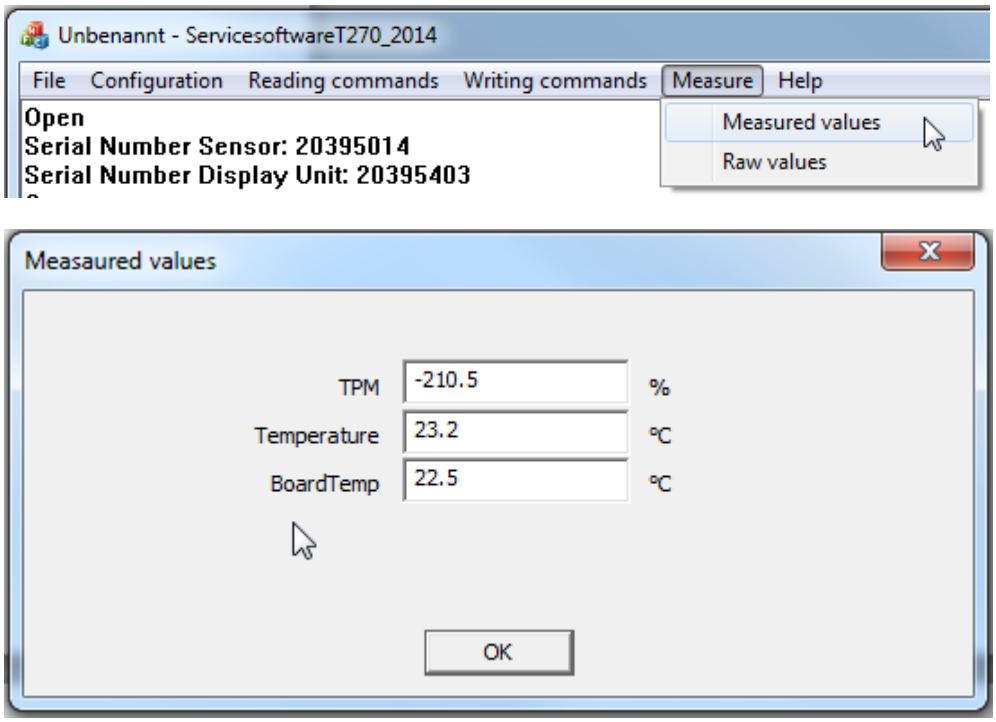


5. After this reset the update sequence will be continued. After 100% update progress the device will be restarted.



5.8 Measure Measured values

The online measurement is done in a 1 sec measuring cycle.



5.9 Measure Raw values

The online measurement of the sensor channel values is done in a 1 sec. measuring cycle.