

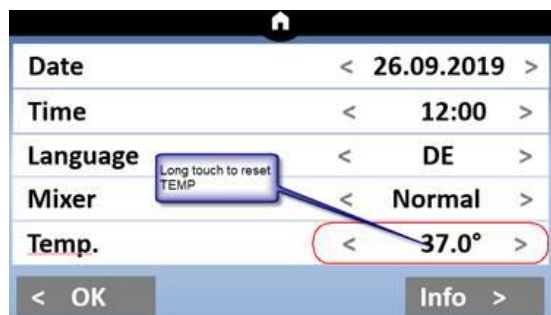
Malfunction Coatron X: Temperature is not stable

Error description:

Malfunction / Error	Possible cause	Measures
System heat up , but temperature on the reagent block is too cold or warm	Sensor calibration is out of range	-reset to factory default as described below. -afterwards adjust temperature as described in the manual.
Temperature during coagulation testing is not constant.	Hi turbid sample/reagents can interfere temperature control on systems before 2021	-update firmware to V1.03.51 or higher (see below)
System shows 99.9°C	electrostatic discharge	-Disconnect power for 1min and restart device afterwards
	No light can transmit the optic channel	- remove cuvettes and reboot. - remove optics and clean optical pathway - update firmware
	errors on optic or mainboard.	-check optics and follow instructions (see next page)
	Optic cable not connected	- Open instrument and check electrical connection of optic block to mainboard

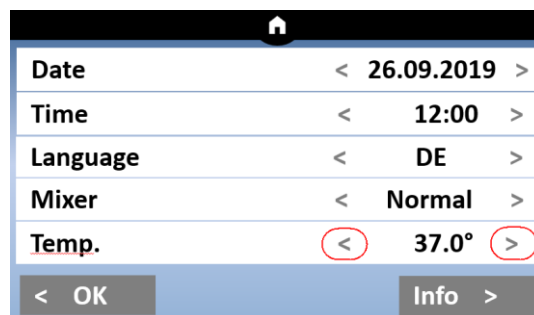
How to reset and calibrate temperature

1. Reset temperature to default



- Long-touch temperature for 3s until a beep noise.

2. Adjust temperature to 37°C



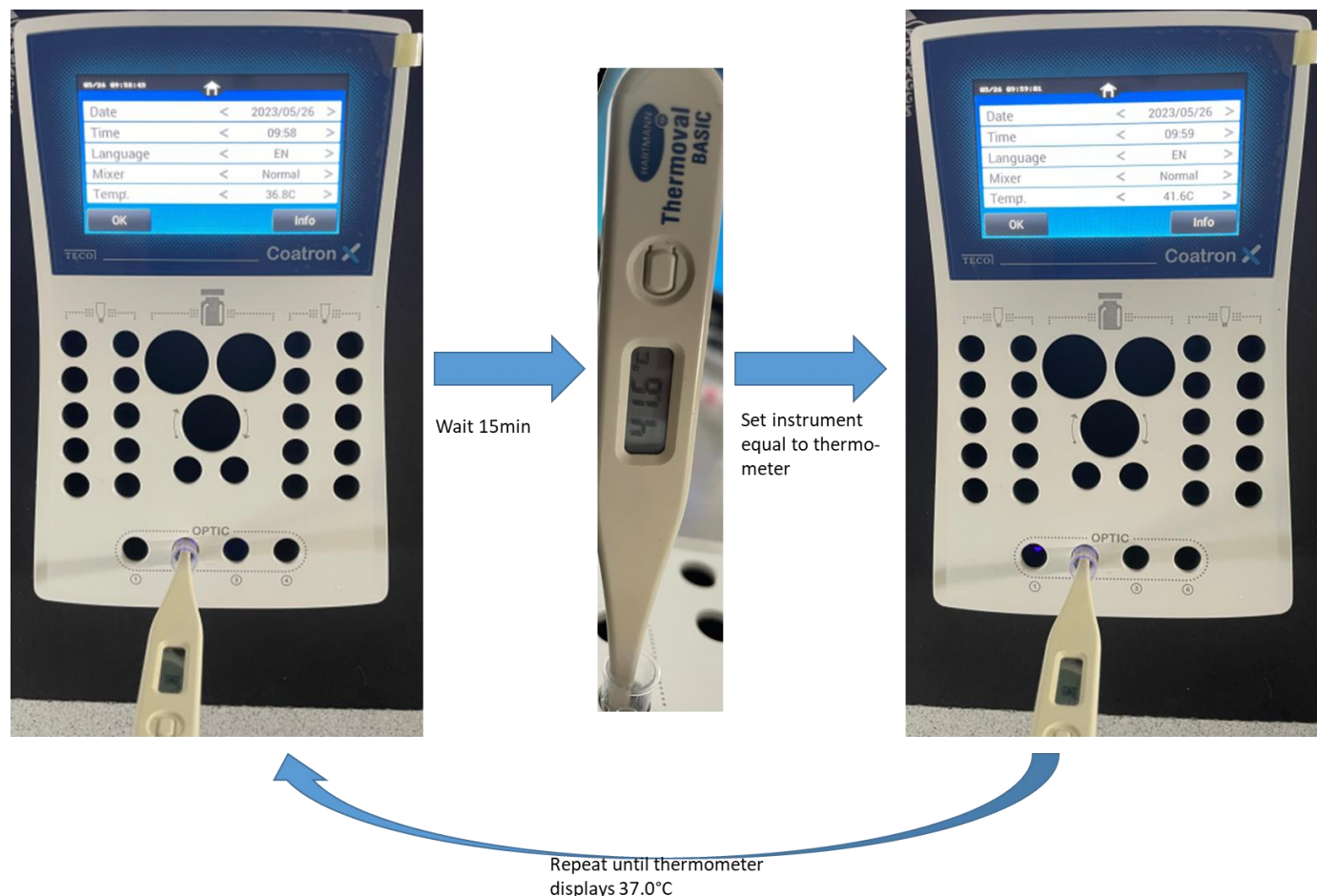
- Wait until system shows 37°C on screen.
- Fill a reagent tube/vial with 2 ml water and place it in a reagent position. Place a digital thermometer in the reagent tube and let warm-up for approx. 10 min.
- Change current system temperature to value of thermometer. Wait 10min and repeat procedure.



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Demonstration: Calibrate temperature from 41.6°C to 37.0°C



How to update firmware

Firmware download



https://www.teco-medical.com/downloads.html?group=Coatron_X&category=Firmware-Update&search=

Video instruction



https://www.teco-medical.com/downloads.html?group=Coatron_X&category=Videos&search=vid_08



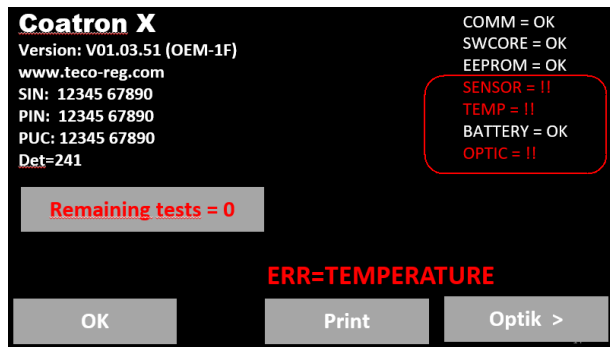
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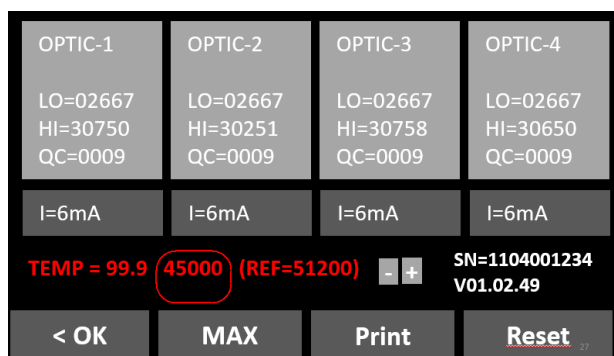
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Check optics



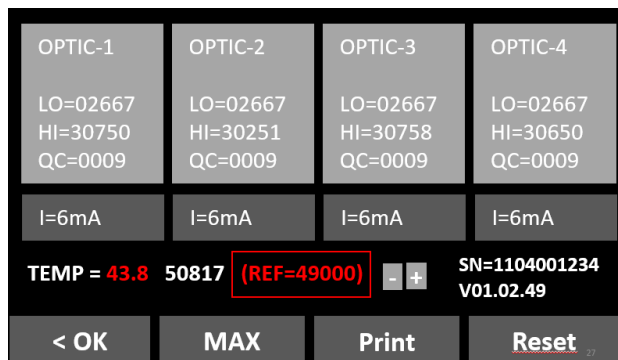
Multi errors (SENSOR+TEMP+OPTIC) are an indicator for ESD (electro static discharge).

- disconnect power for 1min
- remove all cuvettes
- restart device
- check optics again



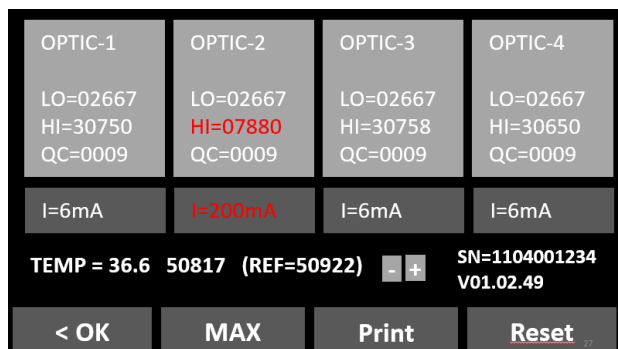
The digital temperature value is out of range [50.000 – 52.000].

- Thermosensor on optic board is defect



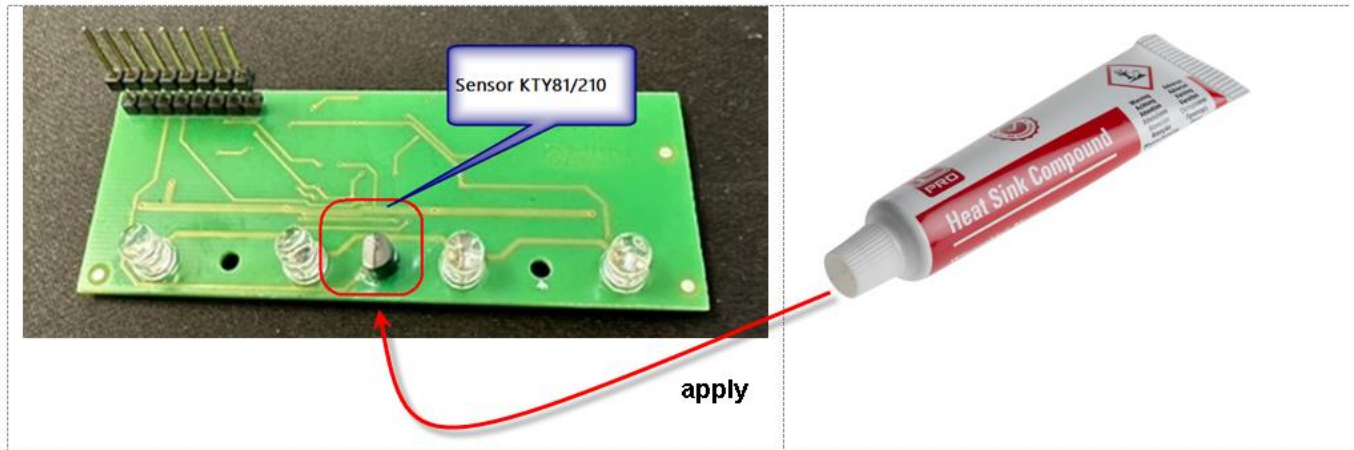
The REF temperature value is out of range [50.000 – 52.000].

- Reset REF value to default=51000 (see page-1)
- Fine adjust temperature to 37°C (see page-1)



Optic channel-2 is out of range

- Optical channel is blocked -> clean optics
- LED is defect



For instruments before

MAN: 2020/02/24
SIN: XXXX-00001 to XXXX-01070

Replace old power adapter SINPRO (16.5Watt) with
new power adapter Friwo FW8030.

Ordering number = 24 005 30