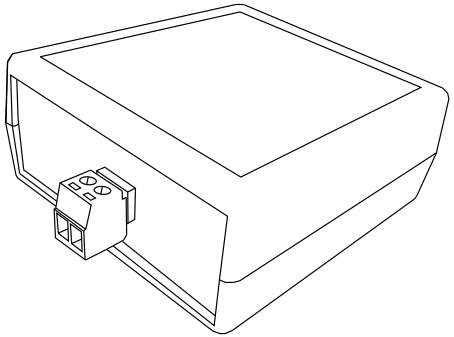
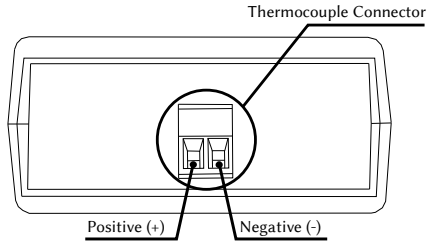
Vesyr

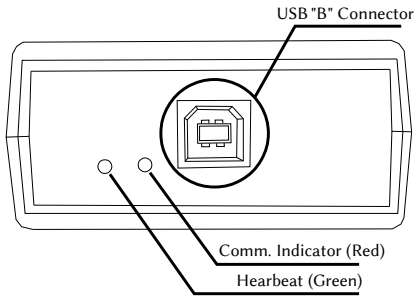
Thermocouple USB
Quick start guide

for SW: 1.0



Device connections





Communications

Serial port settings:

- Baud rate: 38 400bps
- Data bits: 8
- Stop Bits: 1
- Handshake: None
- Parity: None

General command structure:
The communication with the device is with ASCII commands. All commands should be closed with a CR (carriage return, 0x0D) or LF (line feed, 0x0A) character. Commands and arguments should be separated with **1 space** (0x20) character. After a command has finished, the device sends the results (if any) and an OK, if the command was successful. Every line of the response is separated with CRLF.

Basic Commands

ver	Device version and identification
v	Thermocouple voltage in 0.1 µV steps
bt	Query the board temperature
rst	Reset the board

Temperature commands

cj	Get the temperature of a J-type TC in m°C
ck	Get the temperature of a K-type TC in m°C
ct	Get the temperature of a T-type TC in m°C
ce	Get the temperature of a E-type TC in m°C
kj	Get the temperature of a J-type TC in m°K
kk	Get the temperature of a K-type TC in m°K
kt	Get the temperature of a T-type TC in m°K
ke	Get the temperature of a E-type TC in m°K
fj	Get the temperature of a J-type TC in m°F
fk	Get the temperature of a K-type TC in m°F
ft	Get the temperature of a T-type TC in m°F
fe	Get the temperature of a E-type TC in m°F

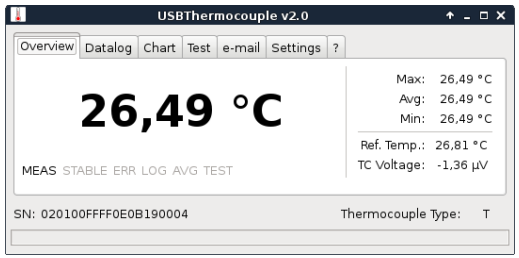
Thermocouple information

Type	IEC colors		DIN colors		ANSI colors		Accuracy
	+	-	+	-	+	-	
T	brown	white	red	brown	blue	red	±1.0 °C or ±0.75%
J	black	white	red	blue	white	red	±2.2 °C or ±0.75%
K	green	white	red	green	yellow	red	±2.2 °C or ±0.75%
E	purple	white	red	black	purple	red	±1.7 °C or ±0.5%

Vesyr

ThermoCouple USB
Software Quick start guide

for SW: 2.0



Starting the software

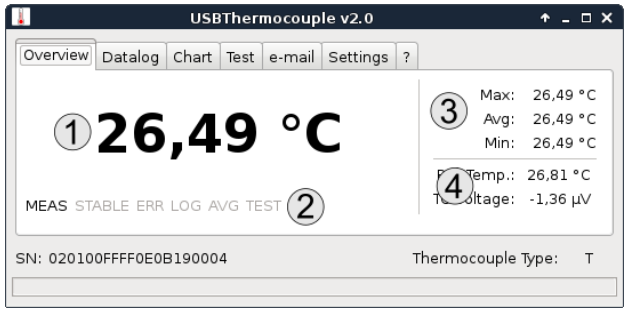
A simple PC software is included with the device. This software is capable for some basic tasks. The supplied SW can run on **Windows** and **Linux** operating systems.

You must install the device drivers for the ThermoCoupleUSB unit, to use the supplied software. You can find the drivers on the supplied CD.

For Windows users, there is an installer provided. Linux users need no installation, only to copy the SW to a directory.

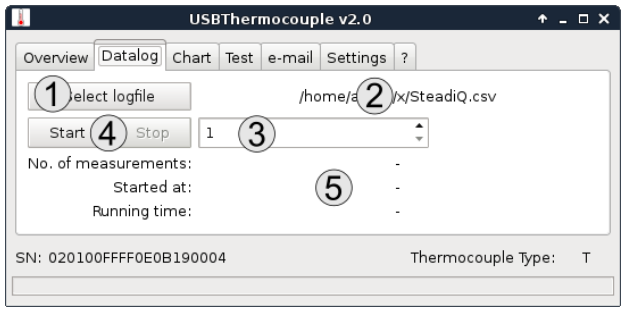
After the program starts, it scans all serial ports for a ThermoCoupleUSB device, and if found, it will select it automatically.

Overview tab



This tab is the default display mode. Here you can see the **measured temperature** ①, the selected functions ② the quick **statistics** ③, the Temperature of the Reference junction ant the voltage of the thermocouple ④.

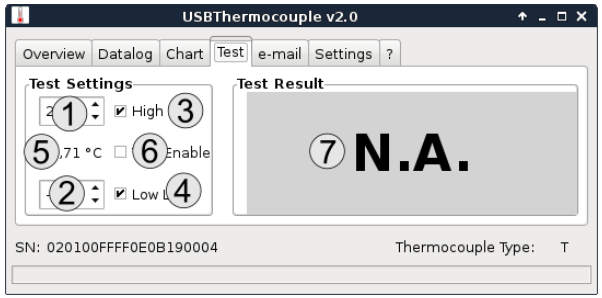
Datalog tab



①② The **logfile** selection and display.
③ The log **interval.**
④ The log **enable and disable** buttons.
⑤ The log statistics.

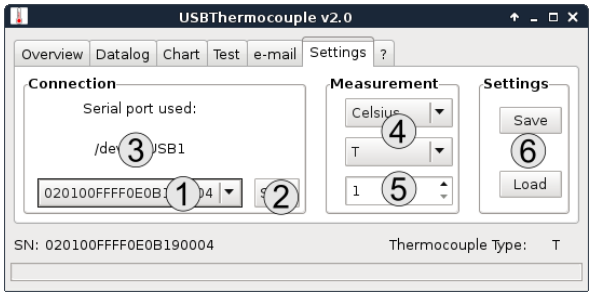
- No. of measurements
- Start time
- Measurement time (sec)

Test tab



① The **high limit**.
② The **low limit**.
⑤ The **actual temperature** display
⑥ The **Test enable**. It can only be activated if at least one limit is enabled ③ or ④.
⑦ The **Test result** display.

Settings tab



① The **serial number** of the device.
② **Scan** for devices
③ The serial port of the selected device.
④ The **type** of the connected thermocouple, and the measurement unit.
⑤ The value of the moving average window. (In number of measurements, 1 measurement per second.)