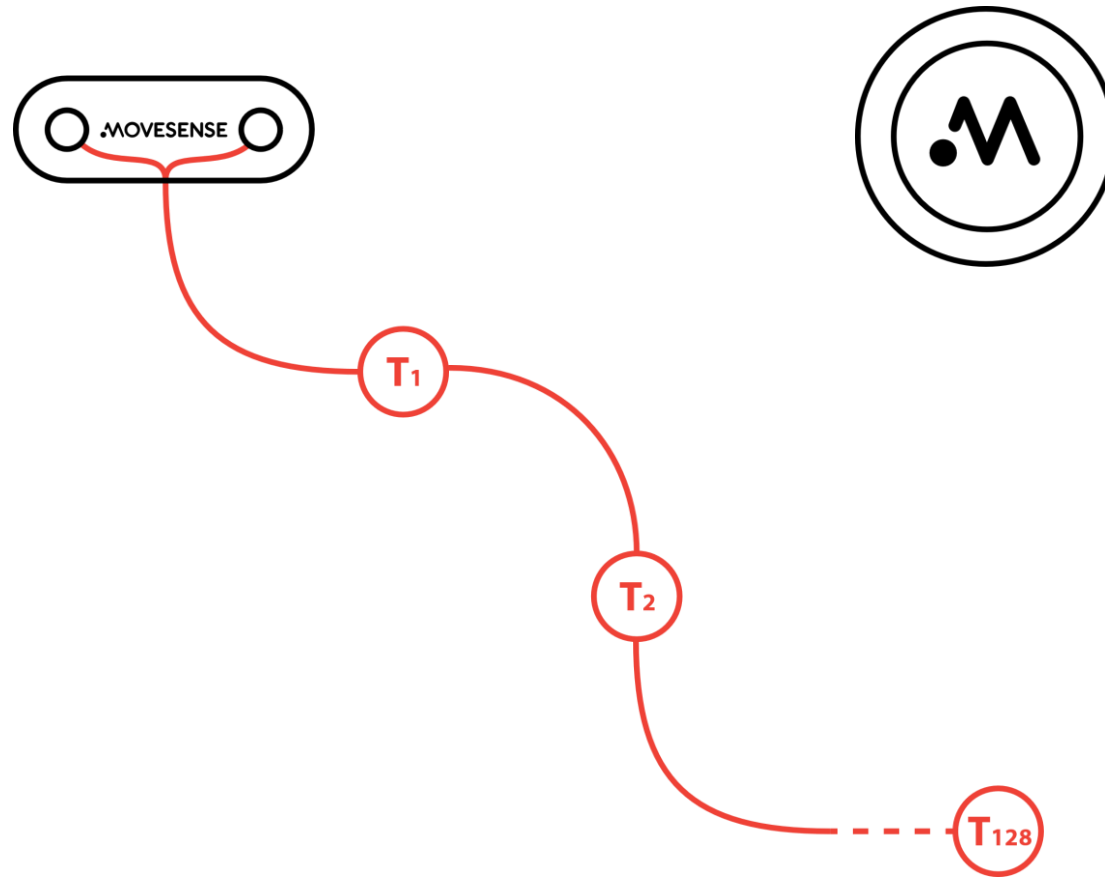


MOVESENSE

1-wire temperature sensor update

How it's done

- 1-wire compatible temperature sensors with 1.8V operating voltage can be connected to Movesense studs
- Movesense can read the temperature from up to 128 external sensors.



Why additional T-sensor?

Limitations of the internal temperature sensor:

- Thermal mass of the device
- Not possible to measure surface temperature

1-Wire® Digital Temperature Sensor

Features

Measurement range: -40°C to $+125^{\circ}\text{C}$

$\pm 0.1^{\circ}\text{C}$ accuracy from 30°C to $+50^{\circ}\text{C}$

$\pm 0.15^{\circ}\text{C}$ accuracy from 0°C to $+70^{\circ}\text{C}$

$\pm 0.25^{\circ}\text{C}$ accuracy from -40°C to $+125^{\circ}\text{C}$

Quick thermal response

Small size 2x2mm LGA package (0.75mm high)

128/256 unique physical location addresses

Applications

Wearable Body Temperature Monitors

Medical Thermometers

Internet of Things (IoT) Sensors

1-wire Temp sensor

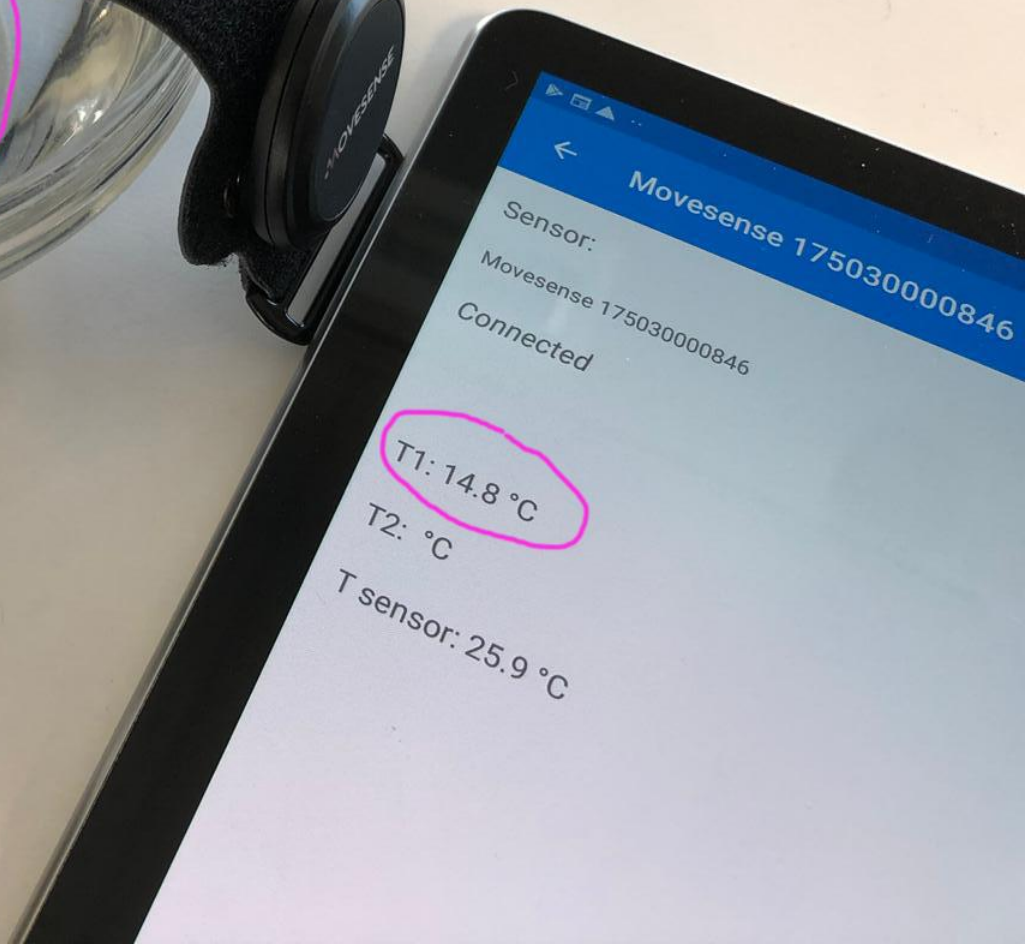
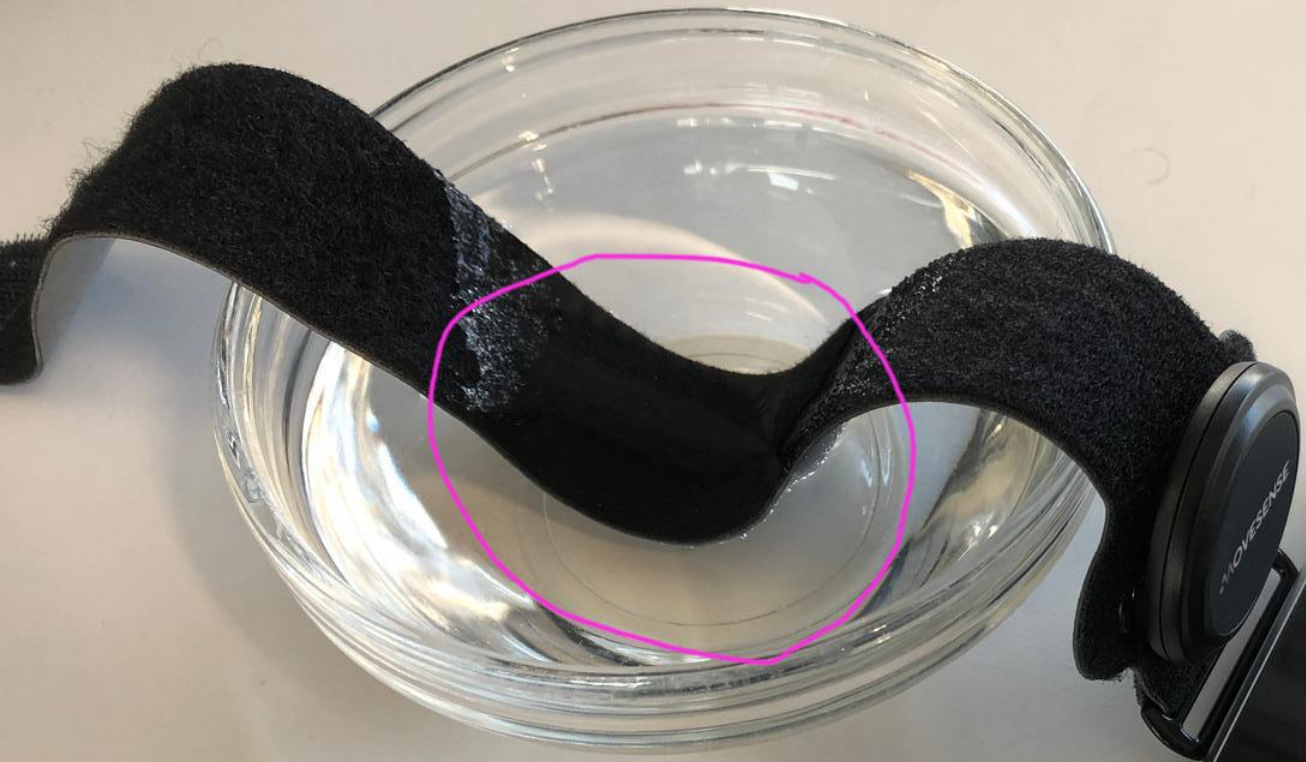


Alignment of
Movesense logo
when connecting
Aux Temp sensor



Alignment of
Movesense logo
when connecting
Aux Temp sensor







BJÖRN BORG
HYDRO-PRO

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Movesense skin temperature measurement trial

