

# TERABEE

## Terabee Fever Screening Kit

Quickly build high quality fever screening systems to enhance on premise safety!

COVID-19 has created a global demand for fever screening solutions. Designed for systems integrators - and even keen hobbyists - our Fever Screening Kit gives you the hardware and software needed to build fast and fully automated fever screening solutions. The kit includes:

- An Infrared thermal sensor, optimised by Terabee for fever screening duties
- A compact and versatile distance sensor to ensure temperatures are taken at the optimum distance from the thermal sensor
- Our customizable Python API

## Key features

- Build your systems faster! - We've done much of the hard work for you
- Fast, contactless fever screening (less than 2 secs reading time)
- Accurate thermal sensor, tuned for fever screening applications
- Distance sensor to increase the accuracy of results
- Customizable API
- GDPR-compliant

## Applications



Customer self-service station



Workforce fever monitoring



School fever checkpoint

# Technical specifications

Product code TB-FSK-1

## Fever Screening

Thermal Principle Infrared thermopile array

Operating Temperature Range 15°C to 30°C

Accuracy <sup>1</sup> ± 0.5°C <sup>1</sup>

Repeatability ± 0.3°C

Resolution 0.1°C

Measuring Distance 0.5 m

Temperature Reading Time 2 s

## Sensors Characteristics Thermal 33

Spectral Range 7-14 µm

NETD: (at 1Hz, 25°C) 254 mK (0.25°C)

Field of View 33° x 33°

Supply Voltage 5V DC ± 5%

Current Consumption: (typical - maximum) 45 mA - 75 mA

Weight 9 g (sensor) + 3 g (backboard)

Communication Interfaces USB 2.0 Micro-B

## Sensor Characteristics Evo Mini

Range 0.03 m to 3.3 m

Supply Voltage 5V DC ± 5%

Current Consumption Average 50 mA

Weight 9 g (incl. backboard)

Communication Interfaces USB 2.0 Micro-B

## Software

API in Python Code <sup>2</sup>

Sensor Synchronization The distance sensor detects human presence and can be used to start the thermal sensor. Distance data can be used to indicate to people to move closer or further away and to detect when someone is at the optimal distance for temperature sensing.

State Machine Triggers an event each time there is a state-change, leaving you free to run other computational processes in parallel.

Face Tracking Computer Vision Algorithm Locates and tracks the optimum facial zone for accurate temperature readings. (Please note, our sensors do not and cannot perform facial recognition.)

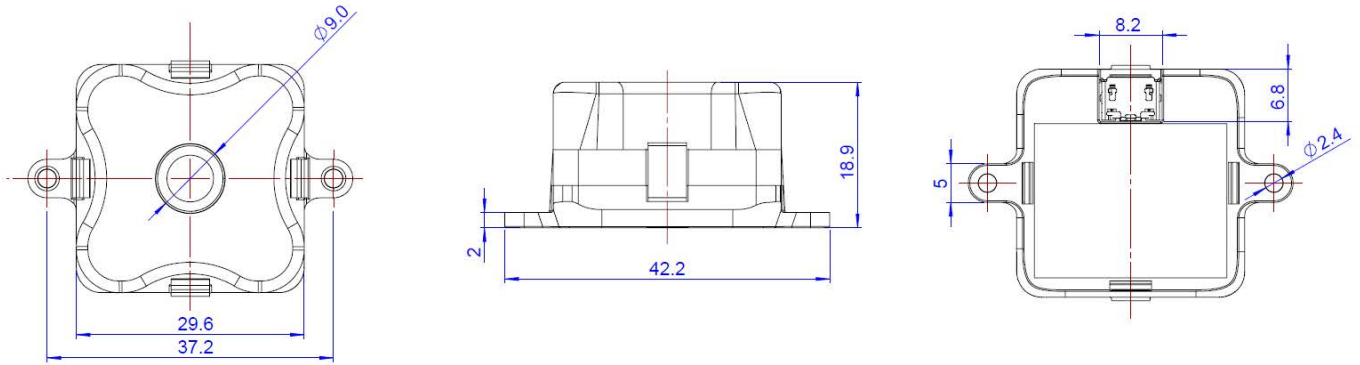
## Conformity

Reference Standard (certifications on-going) CE, RoHS, REACH

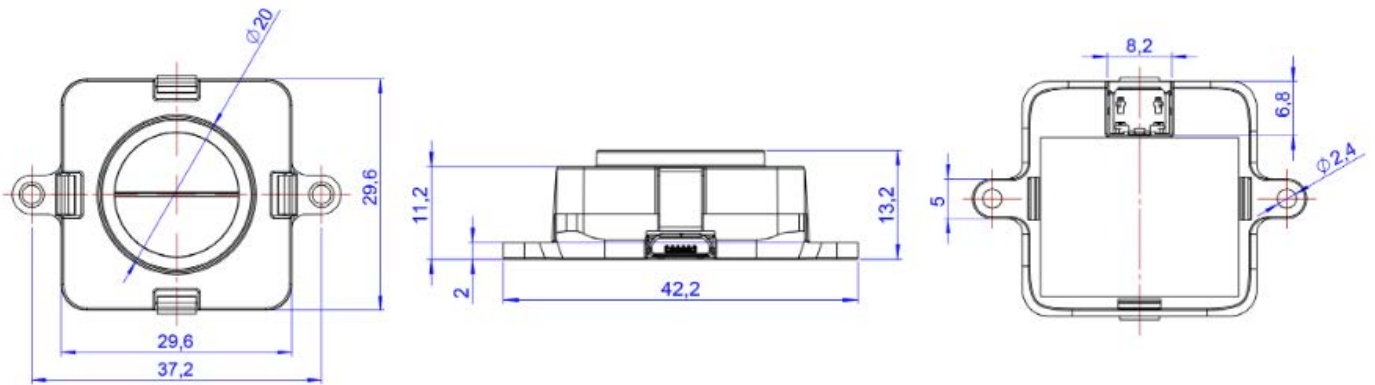
<sup>(1)</sup>±0.5 °C or better accuracy calculated as average over multiple sensors @ 25°C internal temperature and using the center zone of the sensor. Below or above 25°C internal temperature accuracy may vary.

<sup>(2)</sup> The API is provided as a fast-start tool, as is, without additional support from Terabee. In no event will Terabee assume any responsibility, or be liable, to its customers or any third party for any loss, damage or injury which results from the use or application of the API by its customers.

## Evo Thermal 33 dimensions



## Evo Mini dimensions



Have any questions? Contact us today!