



NEW KIT TO DETECT FEVER

on access points

The return to the business activity requires to keep on increasing the **safety measures** to avoid new infections while fighting Covid expansion.

Screening systems must be installed to detect potentially infected individuals in order to **allow workers to return to their workplaces** and to reopen public spaces, buildings, shops and any other facilities.

This new Fever Screening Kit is a **no-touch, portable device designed to screen people for fever.**

SCREEN PEOPLE FOR FEVER IN UNDER 5 SECONDS!

1

The user places its forehead five inches from the sensor to be detected by the infrared technology.

2

The microcontroller takes three separate temperature measurements and compares them to acceptable temperatures ranges.

3

A LED will turn red to indicate a fever or green to indicate no fever.

MAIN FEATURES

Simple, portable, trustworthy

- ✓ High Speed: three scans in under five seconds
- ✓ No-Touch: scans through Infrared, 5 inches away (13 cm).
Not required a person nearby, avoiding to be infected
- ✓ Battery Powered: runs 12 hours on single charge
- ✓ High Accuracy: +/- .32° F (0.2°C) at 5 inches (13 cm)
- ✓ Durable: sensor covered by an anodized aluminum body with fully-potted electronics



APPLICATIONS: BUILDINGS AND FACILITIES WHERE IT CAN BE PLACED

The Fever Screening Kit provides an invaluable tool for organizations looking for ways to limit exposure to contagious illnesses within their facilities.

- Private companies
- Public buildings
- Hospitals and health centers
- Schools, universities and libraries
- Nursing homes
- Courts and tribunals
- Airports, train stations and bus stations
- Shopping centers and supermarkets
- Sports centers: stadiums and gyms
- Theatres, cinemas, museums and auditoriums
- Conventions and exhibition centers
- Hotels, hostels, campings and spa resorts
- Bars and restaurants
- Cathedrals, churches and worship centers
- Charity canteens and hospices

COMPONENTS

and technical information

The kit is composed by the following elements:

- Plug & Sense! Smart Agriculture Xtreme
- Infrared radiometer sensor probe: Apogee SI 411 with a narrow calibration range.
- LED indicator probe
- 220V adapter + outdoors USB cable (power accessory for P&S!)
- Basic programming included (measuring+led green/red). Request for our PCS service for additional programming.
- Communication protocols available: 4G, LoRaWAN, Sigfox and NB-IoT.
- Mounting bracket accessory.



Specifications of Apogee SI 411

The SI-411 has an SDI-12 digital output.

The sensor has a 22° half-angle field of view and a response time of 0.1 seconds.

Sensor includes IP68 marine-grade stainless-steel cable connector 30 cm from head to simplify sensor removal and replacement for maintenance and recalibration.

Digital Input Voltage Requirement	5.5 to 24 V DC with current draw of 1.5 mA (quiescent), 2.0 mA (active)
Calibration Uncertainty (-20 to 65 C), when target and detector ΔT are < 20 C	0.2°C
Calibration Uncertainty (-40 to 80 C), when target and detector ΔT are < 20 C	0.5°C
Measurement Repeatability	Less than 0.05°C
Response Time (time for detector signal to reach 95 % following a step change)	0.2 seconds
Field of view	32° horizontal half-angle, 13° vertical half-angle
Spectral range	8 to 14 μm atmospheric window
Operating environment	-55 to 80 C, 0 to 100 % relative humidity (non-condensing)
Dimensions	23 mm diameter, 60 mm length
Mass	190 gr.

About the IoT platform Plug & Sense!

http://www.libelium.com/downloads/documentation/smart_agriculture-xtreme_technical_guide.pdf

About the IR radiometer sensor probe

<https://www.apogeeinstruments.com/content/SI-100-400-spec-sheet.pdf>

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