

## CHECKMATE EBT (Elevated Body Temperature) SENSOR

As businesses look to resume operations following COVID-19 related work stoppages or interruptions, Employers need to develop a plan that reduces the risk of exposure. The first step is to screen anyone coming in for elevated body temperature (or fever) right at each entry point. A fever is one of the primary symptoms of influenza and COVID-19.

### Three Important Steps to Take

- 1) Display detailed signage at each entrance way that specifies the safety protocols for staff and customers to follow.
- 2) Set up a queuing system with proper physical distancing for anyone entering your premises.
- 3) **Initiate a screening mechanism (CHECKMATE EBT Sensor) to test for elevated body temperature and do not allow any person with an elevated temperature to enter.**

### Check for Fever – Install ProTELEC’s CHECKMATE EBT Sensor at every Entrance

ProTELEC’s EBT Sensor is a simple solution that can be used for both employees and customers. It is an automated, safe and an intuitive fever measurement device.

- **CONTACTLESS** body temperature measurement, no contact contamination
- **PRECISE** measurement - over 1,000 measuring points across user’s eyes and forehead, +/- 0.3 degrees C Accuracy
- **QUICK** - takes less than 1 second to scan a person
- **CONTROL ACCESS** – Can interface with automatic control of doors or turnstiles
- **NO STAFF REQUIRED** to operate the Sensor
- **MONITORED by ProTELEC** – Receive notifications from ProTELEC regarding any staff that have a fever to ensure that they are not working



The process of temperature measurement is done by scan, the measurement is confirmed optically and acoustically within only 0.6 seconds. The whole process of approaching the EBT Sensor, measuring and stepping away takes about 3-5 seconds. The LED bar shows the result directly with GREEN or RED.

Due to the defined and always the same process, the sensor achieves a much more reproducible measurement than comparable methods.

**Elevated Body Temperature (EBT) Measurement** - Fever is a non-specific symptom, but it is one of the best early screening tools for infections such as the corona virus, outside of doing the actual corona virus test. Any infection that is detected early can help to minimize the risk of other employees becoming infected. Therefore, fever measurement is an important first step to protecting your employees, customers and your business because:




- Fever is by far the most common initial diagnosis (according to WHO Report 2/2020: 87.9% for COVID-19)
- the body temperature rises due to the increasing immune defence even before the onset of usual symptoms
- detection can usually be performed even at low virus loads

**Body vs Skin Temperature** - Body temperature averages around 98.6°F / 37°C, with individuals varying slightly lower or higher, and temperature changing throughout the day. However, skin temperature varies widely and can range from many degrees lower to a few degrees higher, changing within minutes.

Skin temperature is impacted by many factors, including hot or cold ambient temperatures, strenuous work or exercise, prolonged exposure to sun, alcohol consumption, moisture on the skin (humidity or perspiration), age and gender.

Due to these factors, using skin temperature to estimate body temperature has risks. *Devices such as Thermal Imaging cameras and handheld devices can be inaccurate because they often are miss aimed and are measuring skin temperature and not body temperature.*

### Technology comparison of current fever screening methods

Technology	Temperature Measurement	Labour Requirements	Investment Costs
 <p>CHECKMATE EBT Scanner</p>	Always constant and defined measuring process and measuring distance	No staff required. Automated and intuitive, simple self measurement	Low purchase and install price, low operating costs
 <p>Thermal Imaging Handheld Device</p>	Possible inaccuracies due to undefined measuring distance and focus of device	Staff required	Low purchase price depending on model, high operating costs due to staff involvement
 <p>Thermal Imaging Camera</p>	Possible inaccuracies due to undefined measuring distance and focus of device	Mostly staff required	High investment costs due to complex technology, high operating costs due to staff involvement

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