SmartXcan
Body temperature measurement reinvented

SECURE   **INTUITIVE**   **FAST**

SmartXcan: Effective and EU-GDPR compliant protection against virus spreading

- **secure:** exact, contactless measurement, EU-GDPR conform operation possible
- **intuitive:** Self-explanatory user guidance
- **fast:** Throughput up to 700 persons/hour
- Manipulation protection through intelligent thermal image analysis
- Stand alone operation or manual or automated inlet control possible
- Provision of anonymous measurement data for hotspot detection
- efficient plug & play installation through PoE connection

Effective procedures and methodologies to combat the spread of viruses

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Identification of infected persons is crucial

In order to permanently reduce the risk of spreading viral diseases (COVID-19, influenza, etc.) in public areas and at the same time to make a better forecast of emerging geo-hotspots, it is necessary to carry out an early identification of infected persons. The access of these persons to crowds of people of any kind must be prevented and it must be possible to supply collected data in real time, in compliance with EU-GDPR, to AI-supported analysis databases.

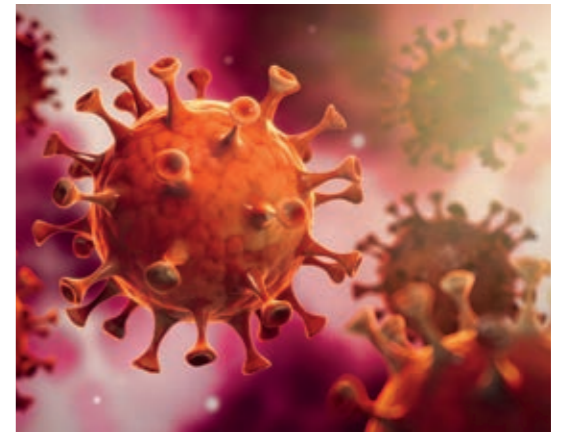## Fever measurement as effective and pragmatic method

Fever is a non-obligatory, non-specific symptom, but it is a very useful screening tool for infections such as the corona virus. Any infection that is detected early can potentially save several lives. For this reason, fever measurement plays an important role in the detection of potentially infected persons, because:

- Fever is by far the most common initial diagnosis (according to WHO Report 2/2020: 87.9% for COVID-19)
- the body temperature due to the increasing immune defence already rises before the onset of usual symptoms
- detection can usually take place even with a low virus load
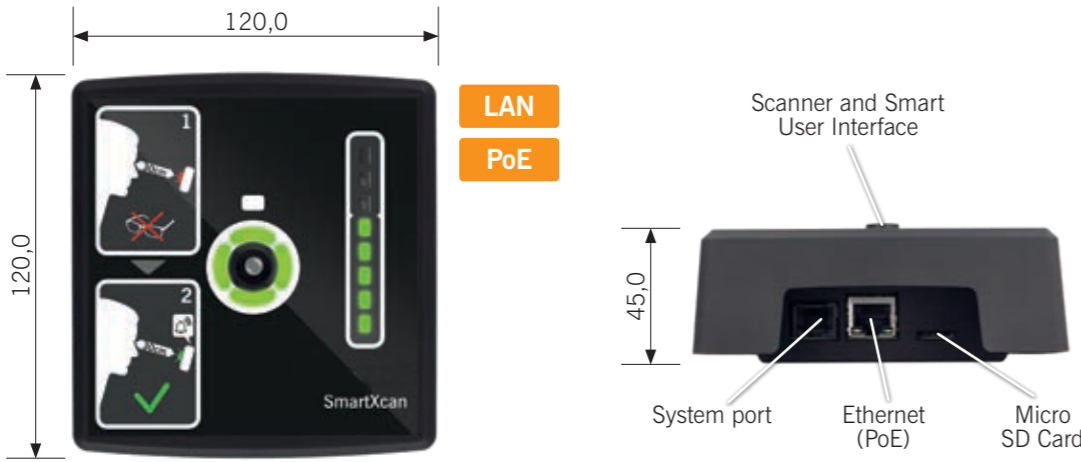
Simple measure for many applications

An automated, safe and intuitive fever measurement at central, preferably electrically controlled access points to crowds of people is an important measure that has been tested in many risk regions:

- to provide long-term and sustainable protection against viral diseases
- to re-establish social and economic contacts while controlling the risk of epidemics flaring up again
- restore public confidence in public security

Simple fever measurement in 2 steps

1   2   30cm   30cm

Direct feedback on the device   Additional control via Web-GUI possible

120,0

120,0

LAN

PoE

Scanner and Smart
User Interface

45,0

System port   Ethernet   Micro
(PoE)   SD Card

SmartXcan

Technical details

User Interfaces	1. Contactless operation on the device with display of the measurement result via LED
	2. Integrated web software with add. information on measurement results and configuration
Speed of the	0.6 seconds after head position detection
temperature measurement	Typical measuring time per person (approach - measure - step away) approx. 5 seconds
Software	Kentix|OS, stand-alone operation with integrated web server (HTTPS)
connection option	Connection via network to AlarmManager-PRO
Sensor - IR Thermal Array	1024 pixel infrared array, measuring range 0 to 100℃, germanium optics, calibration temperature 35℃, reproducibility ±0.3℃, active temperature compensation, emissivity factor 0.97
Sensor - Distance	Distance measurement with resolution of 1mm, Class 1 eye safe laser measurement in accordance with the latest standard IEC 60825-1:2014-3
Buzzer	Acoustic measurement confirmation via buzzer, 85dB, 2.3kHz
Sensor - External output	2x signal output (e.g. measurement OK/NOK) to control doors, turnstiles etc., wiring via separate KIO3 power adapter with relay outputs
LED indication	Temperature scale with 8x LED for temperature indication and display of four temperature ranges
	Illuminated ring with 4x LED for focusing and measurement display
	LINK/ACT to Ethernet socket
Ethernet (LAN)	10/100 Mbit LAN connection, integrated web server (HTTPS, Port: 443) with server certificate
SD Card	Integrated Micro SD card holder as additional memory for image recording, up to 128 GB
SNMP	SNMP V2/3 (get/set), SNMP Traps (Simple Network Management Protocol)
ReST API	ReST API with JSON objetcs (HTTPS), Webhooks with free datastructure
Power supply via PoE	12-72VAC/DC power-consumption ca. 1.5W, PoE class 1 (Power over Ethernet)
System port	RJ45 for connecting external expansion modules
Housing	Material: PS 120 x 120 x 50 mm weight approx. 150g, protection class IP30 Color: Black
Environmental conditions	Temperature 0 - 50℃ Air humidity 5-95%, non-condensing
Content of delivery	Mounting bracket, wall bracket, mounting material, SlimLine cable 3m
Accessories	PoE injector (KPOE150S)
	IO adapter with power supply unit for controlling external devices (KIO3)
Audits	CE

SmartXcan - flexible for all applications

Stand-Alone with DIRECT USER FEEDBACK

LAN PoE

voluntary and self-responsible
Self-monitoring

Industry,
Production

Offices

Banks

Shops

Delivery ser-
vices, Logistics

Stand-Alone with AUTOMATIC ADMISSION CONTROL

LAN PoE

HTTPS

Measurement OK: (free)switching of the entrance

Measurement NOK: entance remains closed

Admission
control

Hospitals,
Medical practices

Retirement
Homes

Daycare centres,
Schools, Universities

Local authorities

Leisure and
sports facilities

Stand-Alone with VISUALIZATION

LAN PoE

HTTPS Frontend

Result
display

Security

Manual
admission

Admission
control

Events, Stadiums

Fair,
Conferences

Theater, Cinema,
Restaurants & Bars

Public
transport

Airports,
Train stations

Optional: Provision of anonymous measurement data

HTTPS, REST-API
Web-Hooks

SNMP

CLOUD

HTTPS, REST-API
Web-Hooks

SNMP

Geo hotspot statistics

Further information available at: www.pulsesupply.com

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