Secure access areas and working premises:

Intelligent measurement system equipped with thermal imaging camera for contactless and automated measurement of body temperature

Features

- The measurement system is preconfigured and ready for immediate use.
- No facial recognition - protection of rights of persons according to DSGVO
- Live thermal image with visual temperature output
- The measuring result is acknowledged with a color and sound signal (optional).
- Limit value and feedback text can be defined by the operator depending on the application.
- Ambient and daytime-dependent parameters can be configured.
- Each measurement situation is specified: typical scenarios are available as templates.
- Intelligent evaluation: The course of measurement is taken into account during evaluation
- Approximately 1,000 measurements per hour are possible.
- Stand-alone unit (230 V connection)
- Windows compatible
- Web service possible

Applications

- Implementation of action instructions for suspected cases according to "SARS-CoV-2-Arbeischutzstandard"
- Suitable for checking the absence of symptoms in accordance with the general ruling of the state of NRW "Corona AV Pflege"
- Protection of access areas and rooms, e.g. hospitals, nursing and educational institutions, factories and working premises.
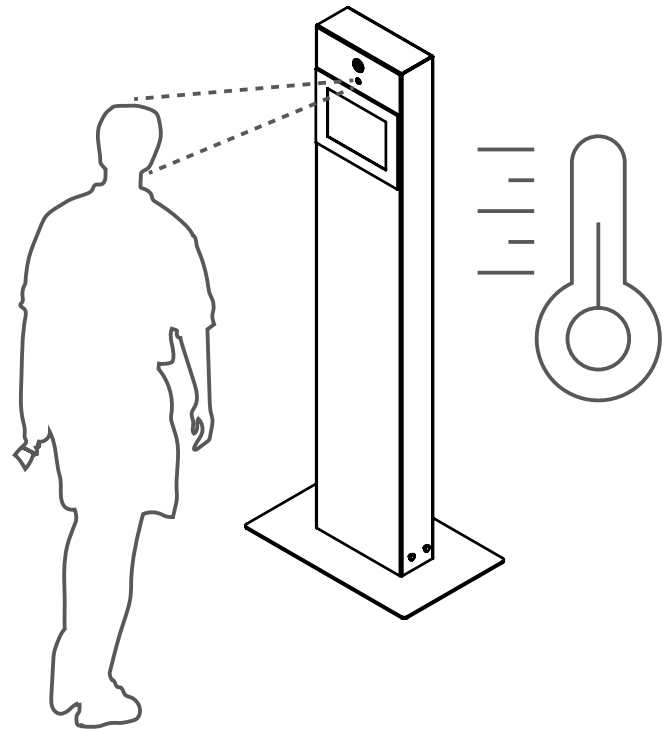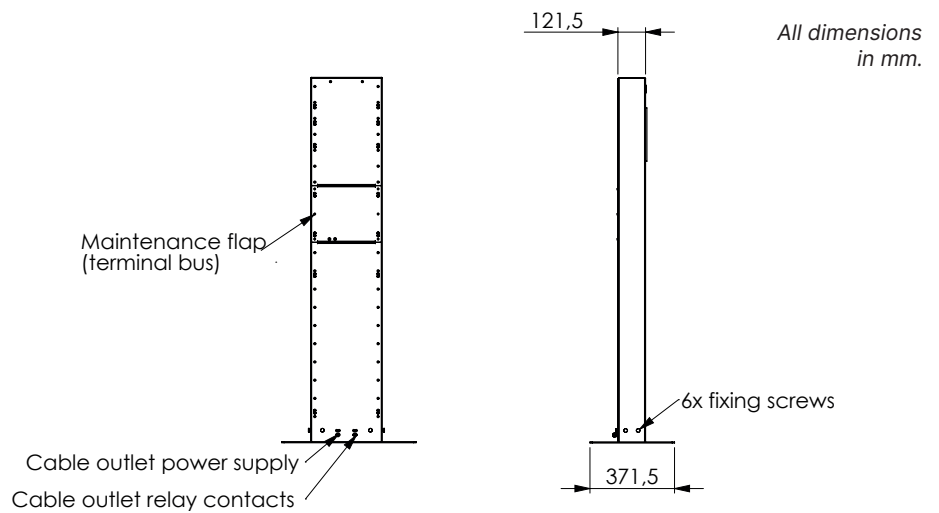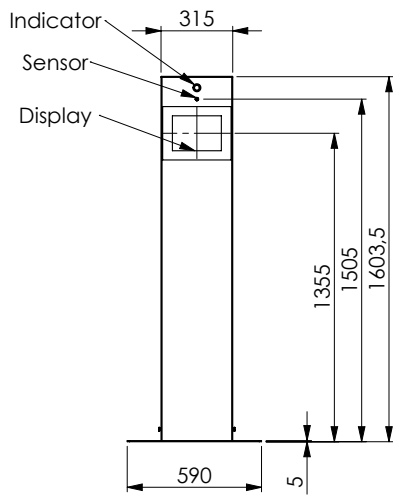
Companies and institutions are aming to provide the best possible protection against infection for employees and public traffic. An important element is the automated and contactless detection of elevated body temperature. From a distance of 50 to 100 cm the measuring system detects whether a person exceeds a defined body temperature by thermal imaging camera.

Particularly in access areas of working premises and public spaces, a reliable statement about the body temperature of persons is essential for safety reasons. A simple temperature measurement via averaging or maximum values is not sufficient to reliably detect persons with an elevated body temperature. The measuring system therefore evaluates the entire temperature distribution of a face and thus provides fast and reliable feedback. Depending on the result, additional measures can be operated via a relay.
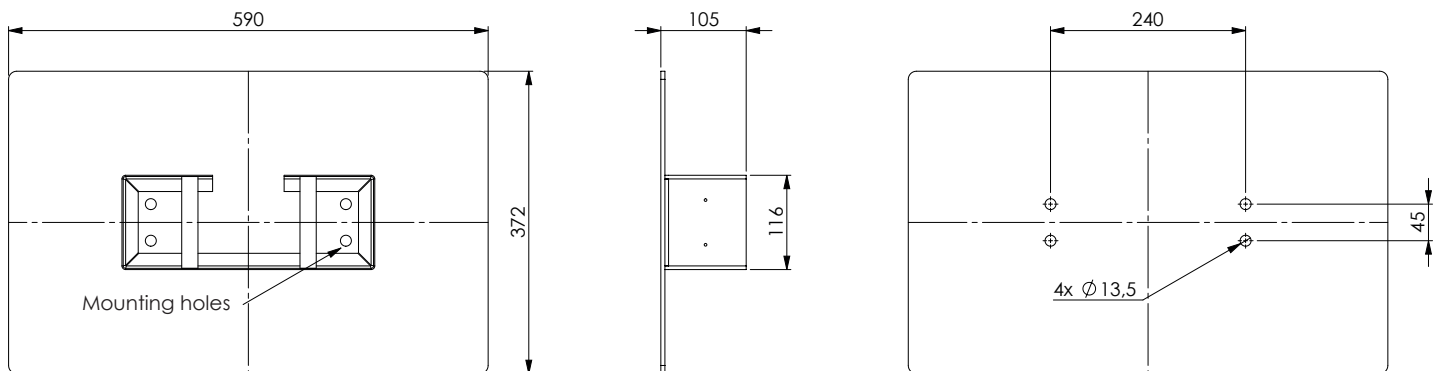
The system outputs the result via a display and acknowledges it - if desired - with a color and sound signal. No face recognition or data storage is required, thus guaranteeing anonymity. The measurement can be carried out under consideration of the roghts of persons according to DSGVO. The application scenarios and the resulting measures are manifold. Therefore, the operator can freely configure, among other things, limit value and feedback.

Specifications

Mechanical Dimension

Indicator
Sensor
Display

315

121,5

All dimensions in mm.

1355
1505
1603,5

590
5

Maintenance flap
(terminal bus)

Cable outlet power supply
Cable outlet relay contacts

6x fixing screws

371,5

Base plate:

590

372

Mounting holes

105

116

240

45

4x ⌀ 13,5

Mechanical characteristics	
Enclosure	Stainless steel
Weight	33 kg
Protection class	IP 44,

Thermal characteristics	
Operating temperature range	+ 10 ... +40 °C (optional with heating -15 ... +40 °C)

Elektrical characteristics	
Power supply	220 ... 240 V, 50/60 Hz
Power consumption	250 VA (500 VA with heating)
Fuse	4A, slow (2 pcs.)
Max. contact rating relay	24 V_{DC}, 4A

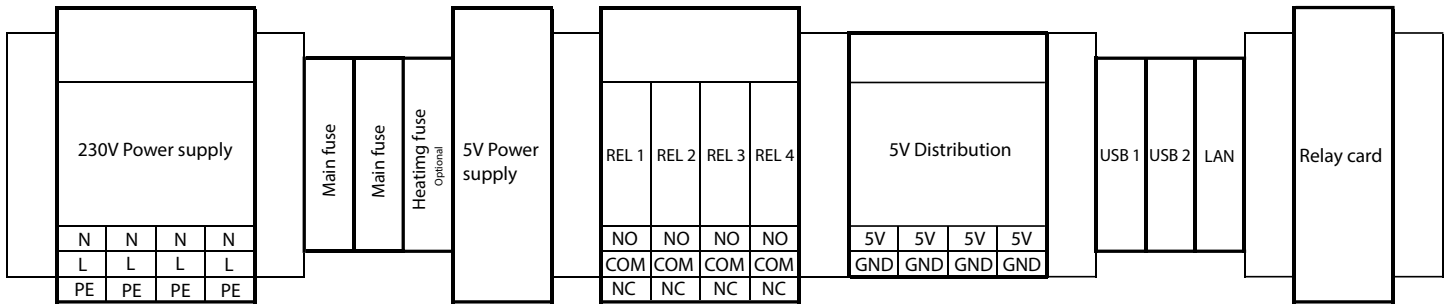| Detector characteristics	
Measuring inaccuracy	0,1°
Point of view	90° (vertical)
Measuring distance	50 ... 100 cm
Measuring range	120 ... 210 cm (body height)

Control Cabinet Heating (optional)	
Power supply	220 ... 240 V, 50/60Hz
Fuse	4A, slow

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Specifications

Relay connection

230V Power supply	Main fuse	Main fuse	Heatimg fuse Optional	5V Power supply	REL 1	REL 2	REL 3	REL 4	5V Distribution	USB 1	USB 2	LAN	Relay card
N N N N					NO	NO	NO	NO	5V 5V 5V 5V				
L L L L					COM	COM	COM	COM	GND GND GND GND				
PE PE PE PE					NC	NC	NC	NC					

Relay	Fault	Operating status (no active measurement)	Temperature too high	Temperature okay	Measurement active
REL 1	0	1	1	1	1
REL 2		0	1	0	0
REL 3		0	0	1	0
REL 4		0	0	0	1

Mounting
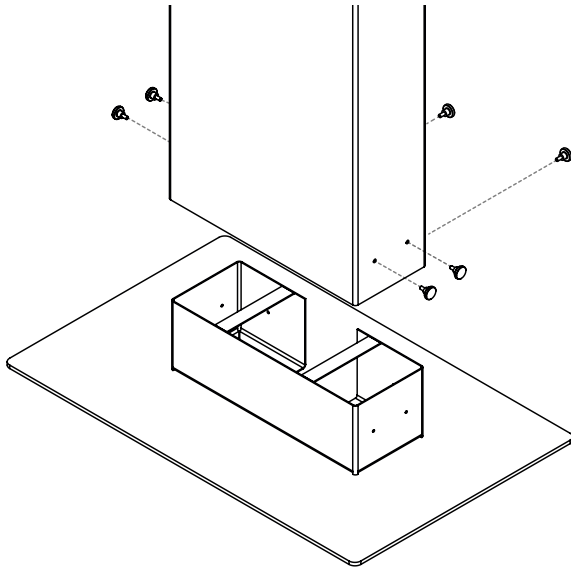
- Depending on the situation, the base plate can be fixed to the floor with four screws to prevent it from falling over.

- For fastening, the stele is put over the frame of the base plate and screwed to the foot with 2 screws each on the right, left and on the back.

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