

Alumil

Smart Gate



Immediate temperature measurement from distance, without radiation, with high accuracy and continuous passthrough

Protect your space with a high measurement accuracy of 0,2°C

The **Smart Gate** system performs **quick, safe, contactless, and accurate temperature measurements** of the people who enter a space with a continuous and fast passthrough rate, without any radiation exposure and with full protection of personal data. Thanks to the speed of measurement, it prevents any queuing at the entrance, that is why it is highly recommended for schools, workplaces (stores, companies, offices, etc.), entertainment spaces (malls, cafes, restaurants, stadiums etc), transportation means (buses, metro stations, ships, trains, airports etc.) and any other space in which gathering and interaction of people take place, consequently requiring enhanced hygienic protection.

The accuracy of measurement of only 0,2°C that is achieved is due to the thousands of simultaneous measurements by the 18 sensors of the system. The innovation of **Smart Gate** lies in its ability to **receive in real time, through multiple mirrors, the infrared radiation that the human body emits**, depicting through algorithms the maximum temperature without being affected by the external environment.

Additionally, it can count people's passthroughs who enter or exit the space, to effectively monitor the permitted total space occupancy.





Advantages of Smart Gate

- / Measurement from distance.
- / Fast checking that allows the smooth and constant passing of people (60 people/ minute).
- / High measurement accuracy +/- 0,2°C thanks to the calibration of the device with the temperature of the external environment.
- / The device does not emit radiation. It passively receives the infrared radiation that the human body emits, without any physical contact.
- / High resolution and accuracy temperature detectors of 18 points, placed vertically.
- / Hundreds of simultaneous measurements per passthrough, to ensure correct results.
- / Immediate receiving and reading of measurements without the need for initial settings.
- / Easy installation and transportation.
- / High endurance.
- / Low cost.

Technical Characteristics of Smart Gate

- / Contactless temperature measurement with visual and sound notification.
- / Measurement accuracy +/-0,2°C.
- / Measuring range up to 1m distance between the person and the product for maximum accuracy.
- / Low electricity consumption (<5 Watt).
- / Automatic calibration for measurement independent from the temperature of the external environment.
- / Ability to export data to PC via RS232.
- / Smart Gate height 2,00m: Measurements from 1,35m - 2,00m (ideal for adults and children over 12 years old).
- / Smart Gate height 1,60m: Measurements from 0,95m - 1,60m (ideal for children from 3 to 12 years old).

Competitive Advantages of Smart Gate

Characteristics	Smart-Gate	Thermal Camera	Digital Thermometer
Automatic Measurement	✓	✓	x
Private Data protection	✓	x	✓
Passthrough counter	✓	x	x
Headcount	✓	x	x
Automatic Calibration with Environment Temperature	✓	x	x
Required Data Reporting Station	x	✓	x
Measurements / sec	>300	1	1
Measurement Accuracy	±0,2 °C	±0,5 °C	±2 °C
Measurement Range for Maximum Accuracy	<1m	<1m	<5cm
Measurement Time	1 second	1 second	3 seconds
Cost	€€€	€€€€€	€

