



# Gunnebo TermSec

Automated Terminal Access Gate

## TermSec

TermSec is a stand alone gate solution specifically designed for Airports.

Based on the same Gunnebo modular gate that is found in pre-security and self-boarding applications, TermSec controls and regulates the flow of passengers based on two criteria:

- Measured body temperature below a preset threshold
- Presence of a correctly worn mask

By means of a web-based setup or client setup tool, the thermal unit can be configured to open the gate if one of the two conditions, or both, are met. Processing time is fast (less than 1s).

Integration with optional barcode readers, thermal printer, and local Windows PC will allow more sophisticated access control logic by combining temperature and mask verification with other access criteria.

TermSec thermal camera unit is pole mounted in the gate entry leg. It integrates a 7-inch capacitive LCD screen, that helps the passenger to correctly position themselves in front of the camera in order to have their temperature accurately measured.

Term Sec is mainly thought as an autonomous gate whose scope is to limit access to certain areas based on measured temperature and mask detection criteria. Nevertheless it allows flexible remote connectivity:

- RS232 protocol to control gate modes (i.e. setting free exit or blocked exit, etc)
- Dry contact output from thermal camera module to send an alarm in case of temperature detected above the threshold
- HTTP listening protocol for remote monitoring for thermal unit status and logging

TermSec configuration allows all the same flexibility of PreSec and BoardSec gates. Options like internal PC, a selection of barcode readers and thermal printer are available.

## Technical Specifications

### Drive

Highly reliable and long-lasting brushless DC digital servomotor

### Materials

<b>Casework:</b>	AISI 304 grained stainless-steel
<b>Moving panels:</b>	10mm tempered clear glass
<b>Side panels:</b>	10mm tempered glass

## Operating Modes

### Entry

Controlled uni-directional with single person detection

### Exit

Exit mode optionally operated by a push button located on the exit side

### Emergency

In power failure condition or when a remote emergency signal is sent

## Passenger Sensors

Gunnebo unique single person detection system and algorithm with a total of 8 + 8 sensors including safety sensors to comply to the latest EU safety regulations.

## Controlling Unit

Gunnebo dedicated gate controller architecture

## Configuration and Remote Control

Manual configuration with onboard push buttons and display.

Full remote control and diagnostics through ModBus Protocol on RS232.

## Connectivity

### Gate

- Modbus Protocol on RS232
- Digital I/O

### Embedded PC

- 4 x RS232
- 4 x USB2.0
- LVDS and HDMI Video
- 2 x Ethernet

## Status Lights

Green/Red status lights around the barcode reader and printer (options) to indicate to the passenger that they should present a boarding pass or take a receipt for a newly allocated seat.

Gate-End-Display informing queuing passengers in front of the gate about the status with a Green Arrow/Red Cross pictogram.

## Benefits

- Ergonomic and elegant design
- High passenger throughput
- Increased security
- Reduction in staffing costs
- Smallest footprint in the industry, reduced space requirements

### FEATURES

Walkway width from 600mm to 900mm

165 mm width cabinet footprint

Plain or sloped entry leg options available

Power Failure: Fail Lock and Fail Safe options available

Torque-limited breakthrough option available (for fail-lock version)

Advanced detection for reliable passenger safety even with carry-on luggage

Optional push button on exit end for deboarding open

Moving panel heights from 900mm to 1800mm for increased security

Controlling unit - NEP Lite controller

Local/remote override

Highly customizable through BGR GUI settings

Gate Interface PC option – fan-less high performance industrial module

OS: Windows 7 Embedded on SSD drive with EWS protection

NFC/OCR/RFID reader options / printer option

### TECHNICAL DATA

Power Supply	110/ 230Vac 50Hz/115Vac 60Hz
Power Rating	240VA during panel movement, 60 VA in standby
Operating temperature	-5°C to 40°C
IP Rating	IP 43
Flow Rates	In BCBP reading mode connected to the airport clearance system 10-12 PAX/ min (entry door in NO mode)
MCBF	10 million cycles

### THERMAL UNIT SPECIFICATIONS

Vanadium Oxide thermal sensor, 25fps

+/- 0.3 °C resolution

0.3 to 2m detection distance

No need of black body temperature reference or calibration

7-inch 1024 x 800 capacitive touch LCD screen

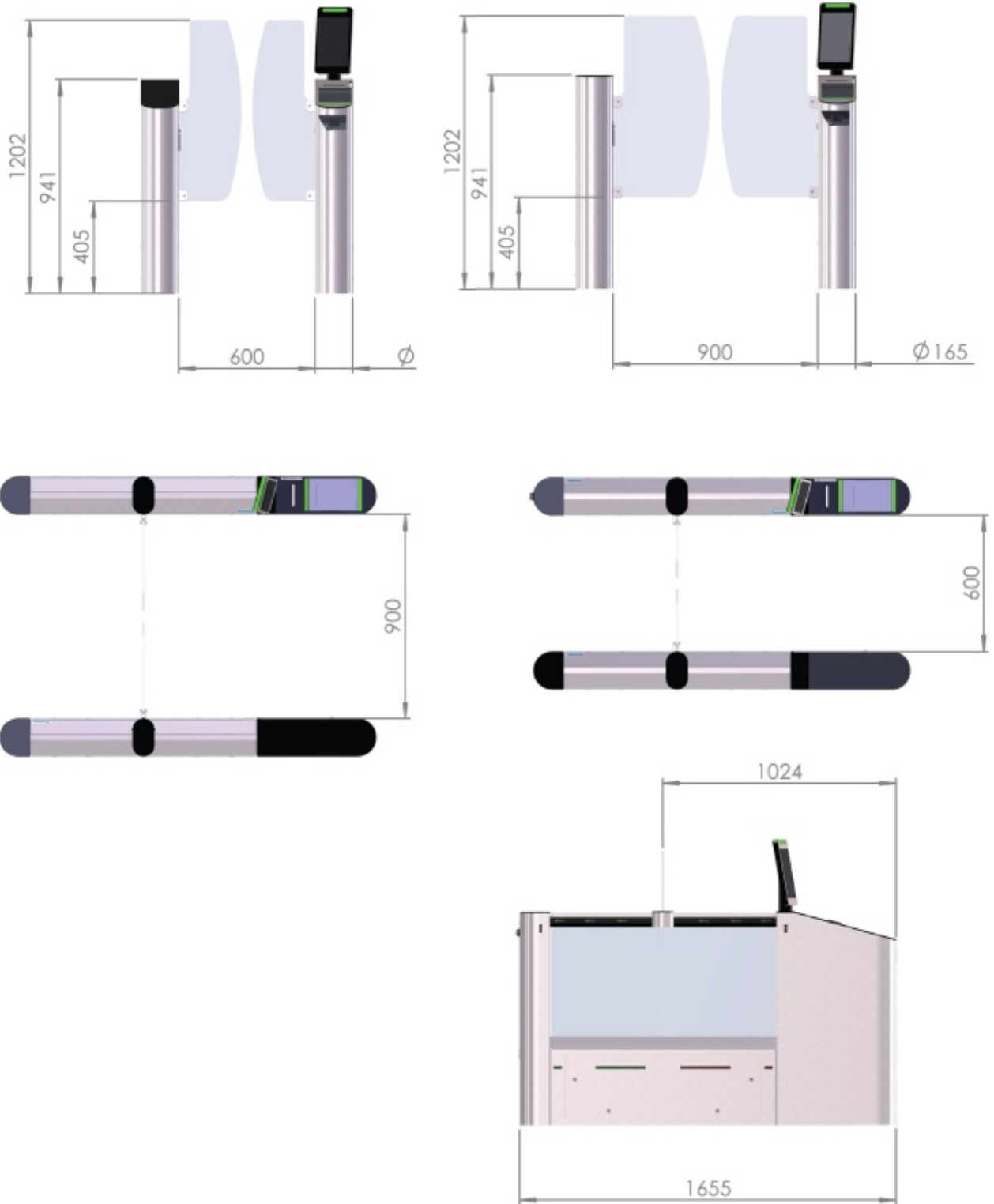
Configurable voice messages

Dry contact alarm output, Ethernet port, RS485

Configurable by web-based GUI or client application tool (Windows 10)

## Site Preparation

Concrete Base to specification at least (cube) 300N/mm<sup>2</sup> of resistance. Base to be flat and level to +/- 5mm over footprint area.



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## International Standards

### CE compliance meeting the following

- 2006/42/EC Machine Directive
- 2004/108/EC EMC Directive

### Harmonized Norms

- EN 60335-1 (2002) Safety of Household appliances and special electrical appliances
- EN16005 (2012) Safety in use of powered pedestrian doors
- EN 61000-6-4 (2002) Electromagnet compatibility - generic standard, emission
- EN 61000-6-2 (2002) Electromagnet compatibility - generic standard, immunity
- EN ISO 12100 (2010) Safety of households and similar electrical appliances

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