

TURNSTILES GA2-TM-(DA)



CATALOGUE
GASTOP PREMIUM



Device's application and description

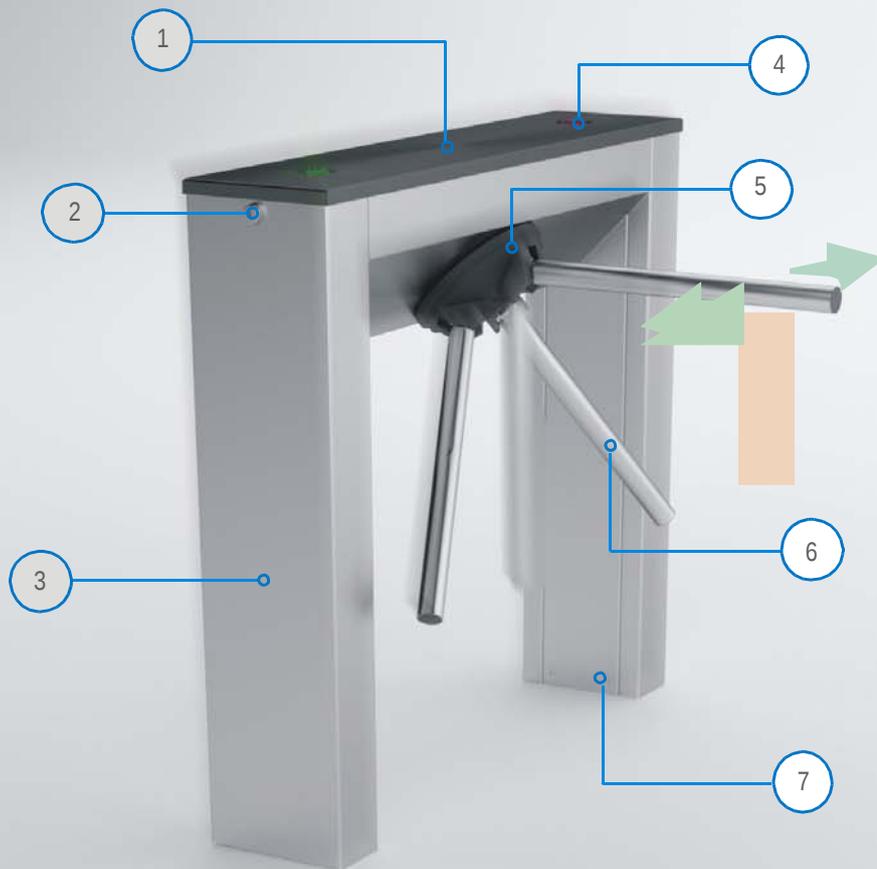
GA2-TM turnstiles are designed for assisting pedestrian access control at guarded passage ways, inside buildings and on the outside. Devices are intended for cooperation with electronic systems of pedestrian traffic and personal access control.

Controlling devices (i.e. reader, button, electronic control, infrared remote control) can be attached to the gate.

Devices are intended for continuous operation and they may be used in high density of pedestrian traffic zones.

The device's main application is to support pedestrian traffic control on site of

airports (e.g. authorised personnel only passageways, as well as directing passenger traffic), at railway stations (e.g. points of ticket control/access control and passenger traffic), points of access control in public utility buildings, points of ticket control and fees (e.g. to sports facilities, show facilities, exhibitions, theatres, cinemas), access and time attendance control points in working places (e.g. dedicated areas in factories, offices).



Description

(1) Top cover made from black ABS. After opening, access to the device's mechanism is possible. (2) Housing lock protecting against unauthorised persons' access (key lock). (3) Housing, depending on a version it is made of AISI 304 type steel, painted steel or zinc steel (4) Information pictograms - identify status of the mechanism's locking for each direction (green arrow/red cross).

(5) Arms connector and arms (mechanism covered with a cover made from black ABS). (6) Gate's arms are made of AISI 304 type steel covered with black covers. Green arrows on a drawing identify direction of pedestrian traffic control (arms rotation), orange arrow identifies the arms falling direction for gates with DA function — so called 'Drop Arm' function. (7) Features fixing the housing to the foundation.



Operation

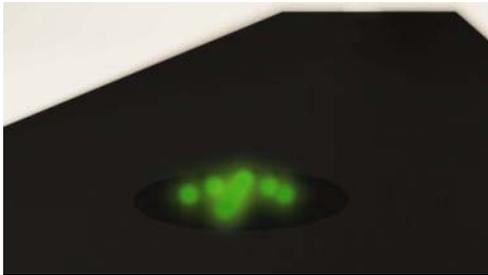
Gates are equipped with a mechanisms controlled by an electronic processor chip. The processor chip, having received a signal from an external device (e.g. card reader, switch/button - 0V signal) and verified the arms' position, takes control over locking and unlocking the arms' movement.

The arms' position measurement system enables smooth operation and efficient functioning of the device. The device's chip sends a feedback informing about the arms' rotation per single crossing.

The device's mechanism is equipped with a bi-directional pedestrian traffic control mechanism, that is, controllers for each access direction separately can be connected to the device. The device is also equipped with a mechanism locking the arms' movement in a direction opposite to the one chosen by the controller as well as mechanical assistance to the arms movement.

'DA' version (so called Drop Arm) is additionally equipped with an electro-mechanism for lowering arms in case of voltage decay or receiving a signal from an external system e.g. alarm system.

Main Functions



VISUAL INFORMATION (PICTOGRAMS)

Visual information identifies unlocking or locking status of the device arms' movement. Green arrow informs that the device's unlocking status is active (the arms rotation is impossible). Red cross informs about the status of locking arms movement/rotation for the traffic defined direction.



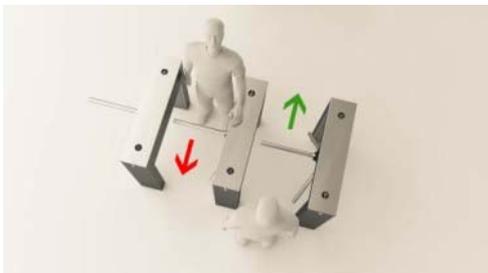
SUPPORTING ARMS ROTARY MOTION

Supporting arms rotary motion is a mechanical system supporting arms positioning to the default position, so called locked position.



LOCKING THE BACKWARD MOTION

Locking the backward motion disables the arms rotation in the direction opposite to the one defined by the external controlling device.



ENTRY AND EXIT CONTROL

The device's mechanism is equipped with a system supporting pedestrian traffic control in both traffic directions (entry/exit from the control zone). In case of pedestrian traffic "collision", the chip remembers external signals received alternately.



SYSTEM OF ARMS DROP

System of arms drop (for models with 'DA' module only) enables clearing passage section in a turnstile by dropping the arm which is in the zero position (so called locking position) based on an external signal or voltage decay. Raising the arm shall be performed by a person.

Other functions and technical parameters

Mechanism

- System of locks for both directions of pedestrian traffic.
- Locking the backward motion.
 - Unlocking the locking system in case of voltage decay.
- Mechanical support for positioning the arms.
- Anti-shock system.
- Dismantable arms for transport.
 - Arm drop in case of voltage decay (model DA only).

Electronic circuit

- 2 x steering input for the first direction (e.g. for connecting the reader and control button, the remote).
 - 2 x steering input for the second direction (e.g. for connecting the reader and control button, the remote).
 - 1 x feedback informing about the arms' rotation being done (Normal Closed or Normal Open).
- 1 x input to calibrate the arms' position.
- 1 x input to program the chip.

Control software

- Function of operation for both directions of pedestrian traffic.
- Function of remembering control signals during a personal passage cycle.
- Function of calibration the arms' zero position.
- Operation mode: standard mode.

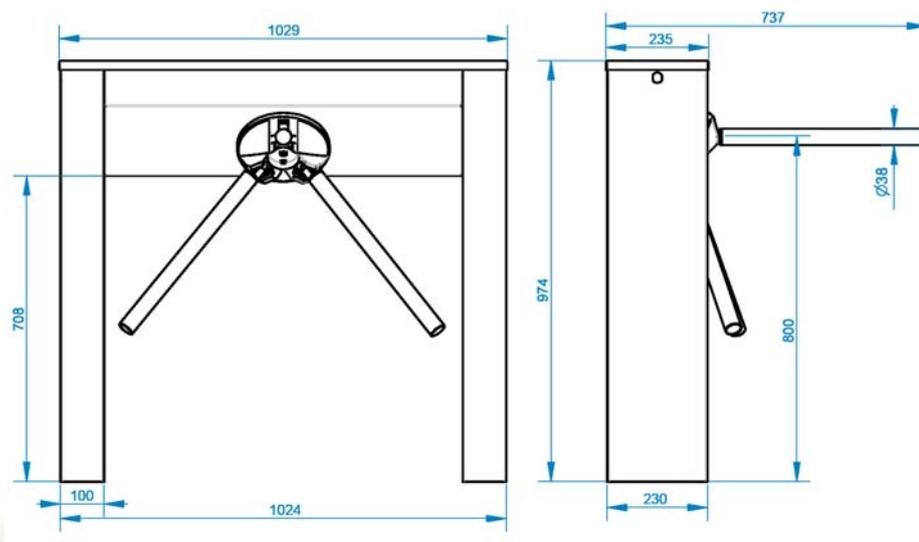
Other functions

- Simplified assembly to the foundation with glued anchor bolts.
- Cable ducts between the foundation and the electronic circuit.

Technical parameters

Power supply voltage	~24VAC
Maximum power consumption	75 VA
Maximum current consumption	2.2A
Current consumption at start-up	
Operation temperature	0 to +50°C
Storage temperature	-30 to +60°C
Operation environment	inside and outside buildings
IP protection rate	IP 43
Net weight	~40 kg

Device's dimensions



Device's standard housing finish

STAINLESS STEEL „N”



External housing made of polished steel AISI 304 type.

PAINTED STEEL - “M”



External housing of the device is made of powder painted steel in any colour in the RAL palette.

ZINCED STEEL - “O”



External housing of the device is made of hot dip zinc-plated steel.

System of arms drop

FIXED ARMS



DROPPING ARMS “DA”



Model markings

Model	STAINLESS STEEL	PAINTED STEEL	ZINCED STEEL	“DA” FUNCTION
GA2-TM-N*	○			
GA2-TM-M*		○		
GA2-TM-O*			○	
GA2-TM-DA-N*	○			○
GA2-TM-DA-M*		○		○
GA2-TM-DA-O*			○	○

* - cover ma from black ABS.

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