

Manual

Bidirectional turnstile

**Series ATR 8xx**  
**Series ATR 9xx**  
**Series ATR 10xx**



Manufacturer:

**AUTOGARD spol. s r.o.**  
**Dornych 47, 617 00 Brno, CZ**  
**tel.: +420 545 214 149, fax.: +420 545 214 150**  
**e-mail: [autogard@autogard.cz](mailto:autogard@autogard.cz)**  
**<http://www.autogard.cz>**

## **Acknowledgement**

Thank you for choosing our turnstile. All our products are brought in market after being long and hard tested.

All the materials and components used by manufacturing are put through many probations and tests.

Our products were designed for high operation, long durability and are nearly maintenance-free.

They are produced in accordance with common used technical standards and in full range satisfy specified technical norms.

## **Purpose of use**

To take control of passage into restricted properties.

Turn stile may be serviced only by a competent, trained or instructed person.

## **Forbidden manipulation**

**It is forbidden to burden turnstile's bars!**

## **Important notice**

**The Declaration of conformity and Certification do not refer to the reading apparatus of the entrance system, which may be part of the turnstile.**

## **General features**

Bi-directional turnstiles type ATR 8xx, ATR 9xx serve to regulate passage in most various places like administration buildings, sports facilities etc. They are intended for intense, round-the-clock service. Operating the turnstile is ensured by an electronical chip unit, which makes the working mode setting possible. The cover is made of stainless steel 1,5mm thick, coating rubbed. Upper cover with safety lock. Bars are made of polished stainless tubes screwed into a revolving aluminium head, against demontage insured by stud bolts.

### Technical datas

Type	ATR 8xx, ATR 9xx, ATR 10xx
Power supply <sup>(4)</sup>	230V AC
Control unit <sup>(4)</sup>	24V DC
Pictograph power supply <sup>(4)</sup>	24V DC
Direction control <sup>(4)</sup>	A / B / A+B / no superior system
Automatic unblocking	Free passage
Absorber	hydraulic
Dimensions	1000 x 884 x 770 mm <sup>(1)</sup> 1060 x 1084 x 770 mm <sup>(2)</sup> 1060 x 1284 x 770 mm <sup>(3)</sup>
Weight	78 kg
Working temperature	-20°C - +70°C
Average capacity	30 per./min.
Max. capacity	50 per./min.
Counter range <sup>(4)</sup>	0-9999
Counter resetting <sup>(4)</sup>	manual

<sup>(1)</sup> - series ATR 8xx

<sup>(2)</sup> - series ATR 9xx

<sup>(3)</sup> - series ATR 10xx

<sup>(4)</sup> - some models only

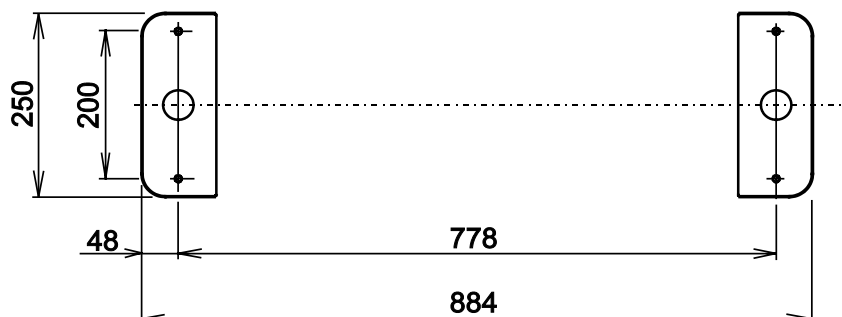
### Turnstile installation

#### ***Important notice:***

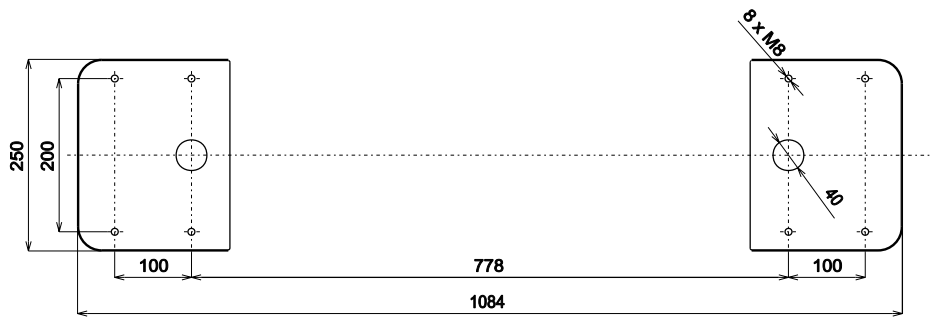
*Turnstile may be installed by a competent person, who was trained by the supplier, or with the assistance of supplier.*

1. Before starting installation the building site must be clear and straight
2. Turnstile and other components axis is set down
3. Sign and drill the fixing holes for fixing bolts 10mm.
4. Fix turnstile to the floor and well tighten
5. Make electrical connection following the schema
6. Check active norms

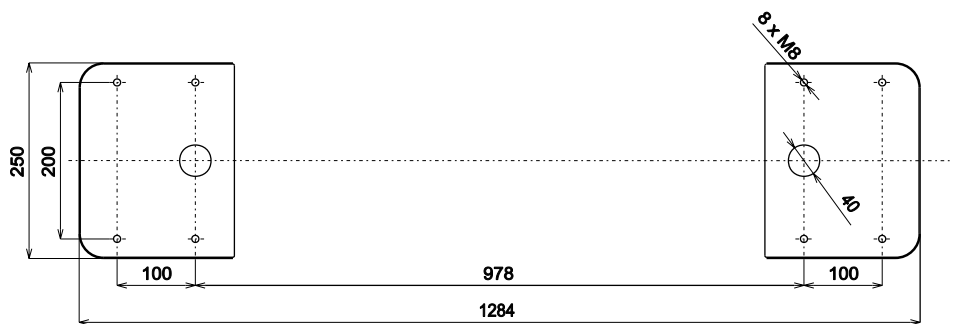
### ATR 8xx series



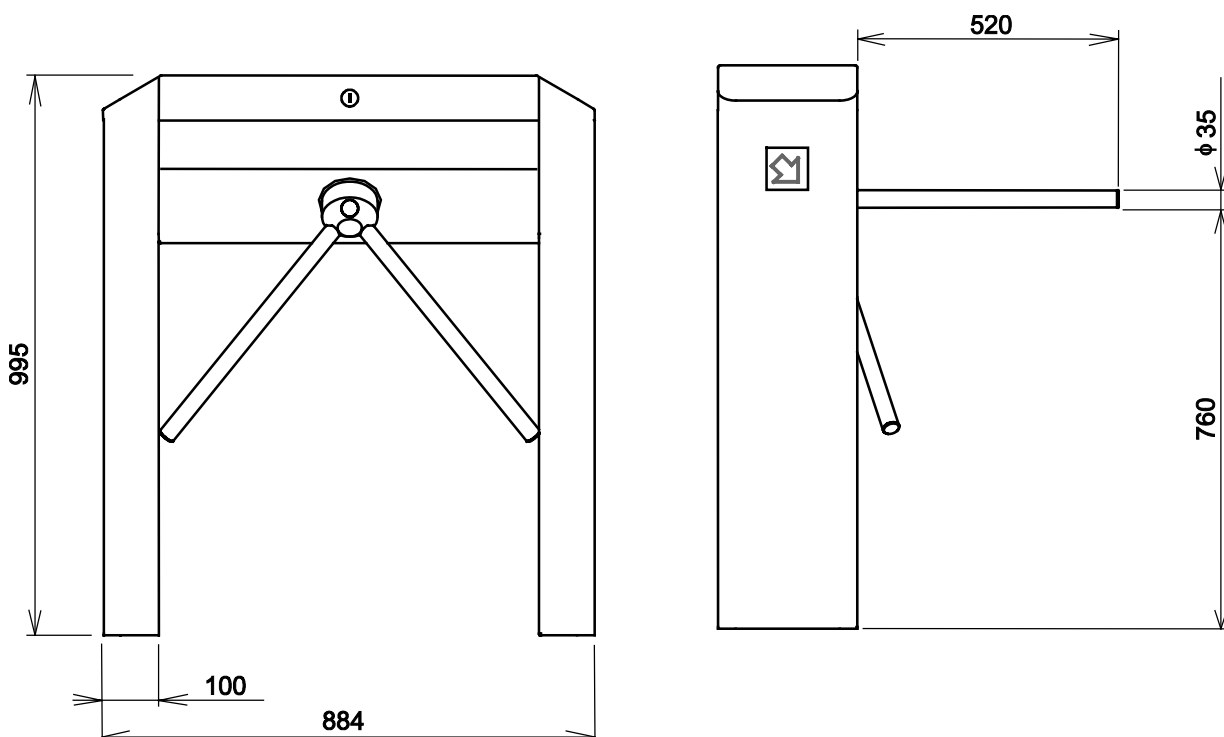
### ATR 9xx series

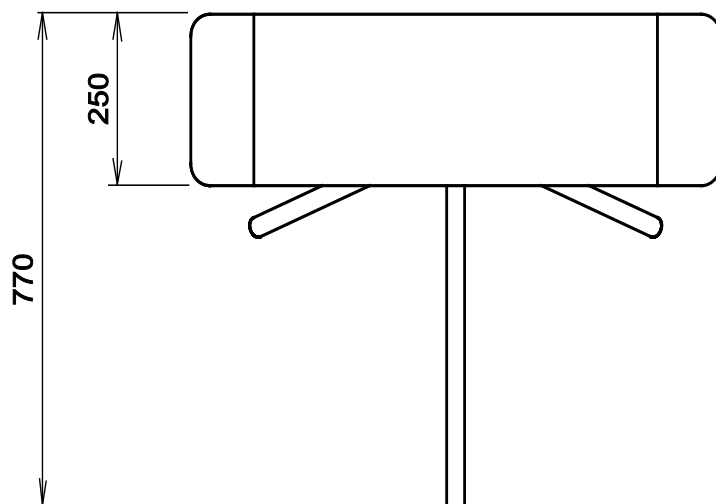


### ATR 10xx series

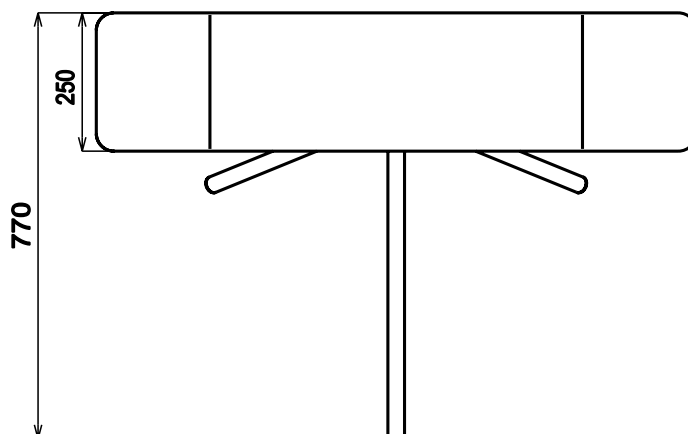
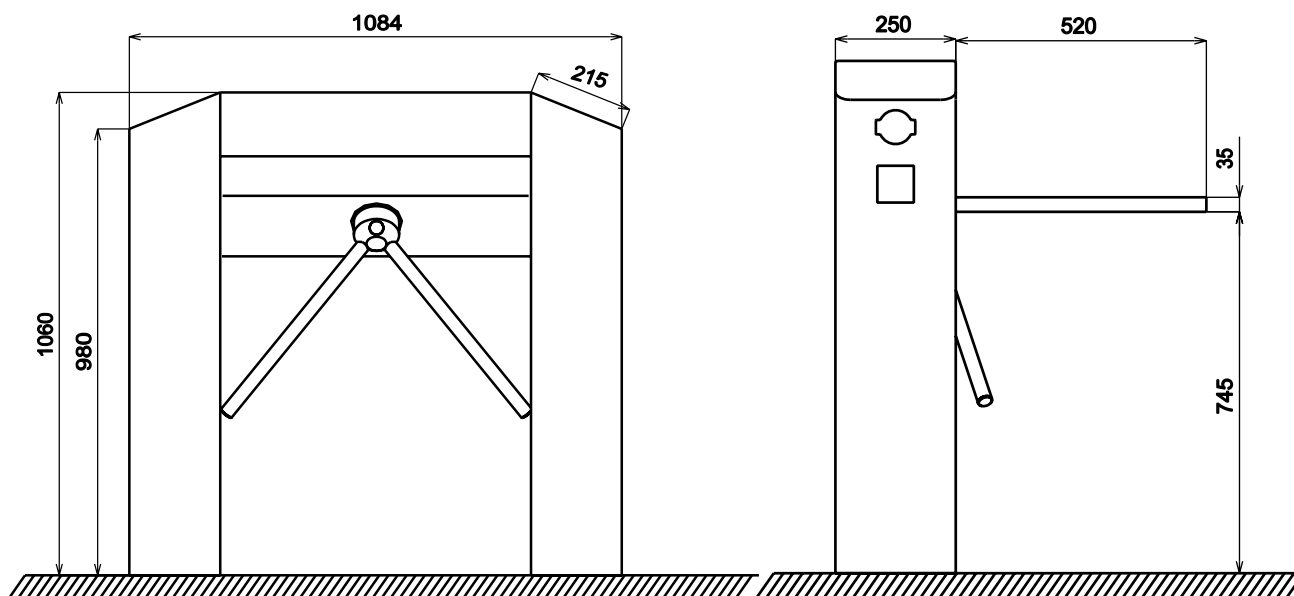


### Dimensional drawing: ATR 8xx series

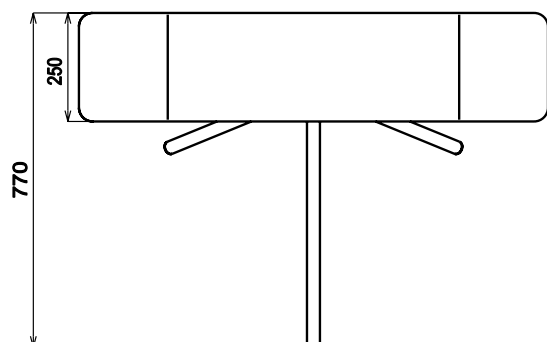
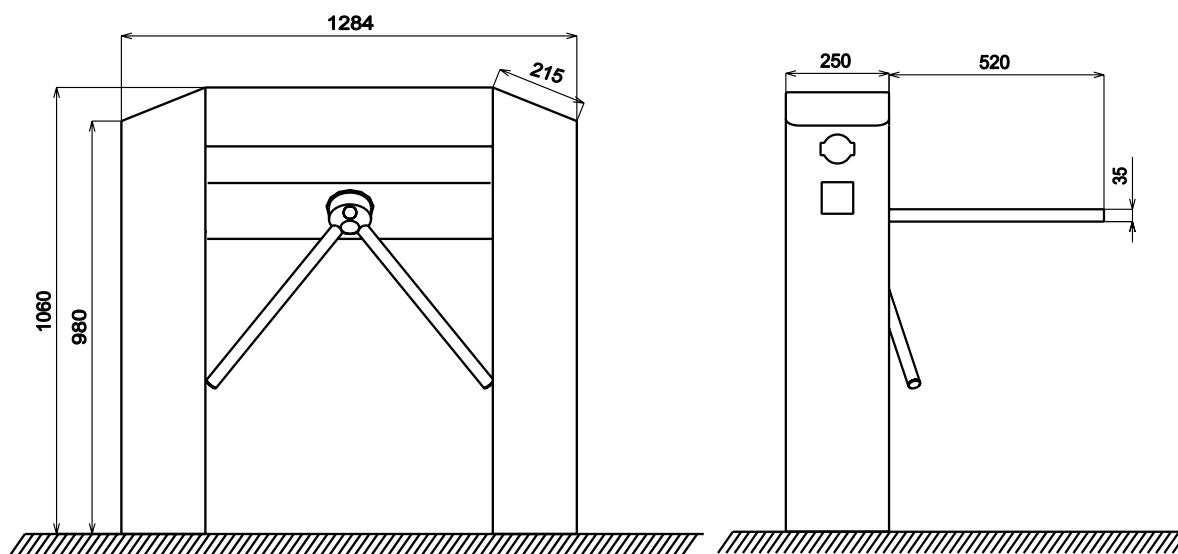




**ATR 9xx series**



### ATR 10xx series



## Description of microprocessor control unit and connections

### General

**Control unit ZTU01** controls the turnstile following the incoming signals. The parameters are set with 2 push buttons. This parameters enable to set different function. To the unit are connected position sensors, electromagnets and pictograms.

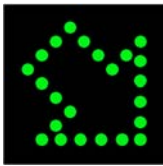
**Position sensor** is giving the information about the position of tripod mechanism.

**Electromagnets** provide release of mechanism.

**With different parameters** can be set functions blocking passage and maximal time of release.

**Pictograms** informs about status of turnstile:

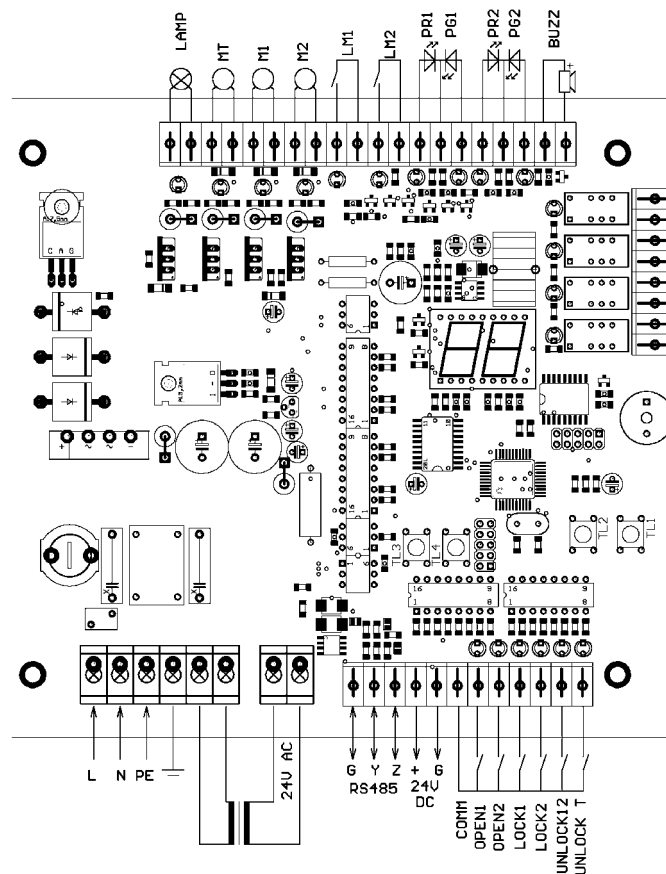
- red cross – turnstile is blocked – not possible to enter
- green arrow – turnstile is possible to release with cards, push-button etc.



green arrow

red cross

### Control unit diagram



### Terminal description

Name	Description
L, N, PE	Power supply 230V AC/50Hz
L, N, PE	Primary circuit of transformer
24VAC	Secondary circuit of transformer
G,Y,Z	RS485 – not set
+24V	Auxiliary tension output 24V DC + max. 200mA
G24V	Auxiliary tension output 24V DC +
COMM	<b>Common connector for operating buttons</b>
OPEN1	<b>Release magnet M1 for 1 passage</b>
OPEN2	<b>Release magnet M2 for 1 passage</b>
LOCK1	Permanent M1 magnet blocking– turnstile cannot be released – programmable parameter set function
LOCK2	Permanent M2 magnet blocking– turn stile cannot be released – programmable parameter set function
UNLOCK 12	Both magnets permanently released – free passage – programmable parameter set function
UNLOCK T	Thorn released – not implemented yet

### Terminal description – inner distribution

Name	Description
LAMP	Lamp 24V DC connection, signalizes unblocking in any direction
MT	Thorn magnet – not connected
M1	Release mechanism magnet – direction A
M2	Release mechanism magnet – direction B
LM1 , LM2	Turn stile position sensors ( NC contacts )
PR,PC,PG 1	Pictogram for direction A: PR – red, PC –COM , PG – green
PR,PC,PG 2	Pictogram for direction B: PR – red, PC –COM , PG – green
BUZZ	Insertion of piezoelement for acoustic signalisation of magnet release ,24V max 100mA

### Description of control unit push-buttons

Name	Description
TL3	1 passage M1 magnet release button
TL4	1 passage M2 magnet release button
TL1 , TL2	Programming buttons for change of programmable parameters of the desk

### Change of parameters

1. Press simultaneously both programmable push-buttons TL1 and TL2 to enter the programming menu.
2. By pressing the keys choose number of parameter subjected to change.
3. Press simultaneously both push-buttons to activate required parameter.
4. By pressing keys choose required value.
5. The value to be saved by simultaneous pressing of both push-button

**Table of programmable parameters**

Parameter	Function description	Values	Default
01	Blocking magnet 1: 00 – entering edge of impulse enter LOCK1 01- during the whole time of closing enter LOCK1	00-01	01
02	Blocking magnet 2: 00 – entering edge of impulse enter LOCK2 01- during the whole time of closing enter LOCK2	00-01	01
03	Permanent magnets release: 00 – entering edge of impulse enter UNLOCK12 01- during the whole time of closing enter UNLOCK12	00-01	01
04	Max. time of magnet release ( time out), after it runs out magnets will be locked ( in seconds )	00-99	10
05	Supply failure definition 00- Both magnets blocked ( standard situation ) 01- Direction 1 blocked, unable to release, ( unblocked by the adge enter LOCK1 ) 02- Direction 2 blocked, unable to release, ( unblocked by the adge enter LOCK2 ) 03- Direction 1 and 2 blocked, unable to release, ( unblocked by the edge enter LOCK1 and LOCK2 ) 04- Both directions free passage, ( blocked by the edge enter UNLOCK12 )	00-04	00
06	Inner piezobuzz operating, signalizes unblocked turn stile 00- off 01- on	00-01	01

**Programmable parameter function description****Parameter 01**

- value 00 –

Blocking is achieved with rise time impulse of input LOCK1, cancelling with new impulse.

-value 01 –

For blocking it is necessary to have active signal for the whole time of required blocking. Cancelling by end of switching.

**Parameter 02** – the same as parameter 01 but for opposite direction.

- value 00 –

Blocking is achieved with rise time impulse of input LOCK2, cancelling with new impulse.

- value 01 –

For blocking is necessary to have active signal for the whole time of required blocking. Cancelling by end of switching.

**Parameter 03**

- value 00 –

Release of both magnets (free passage in both directions) is achieved with rise time impuls of input UNLOCK12, cancelling with new impulse

- value 01 –

For release of both magnets is necessary to have active signal on input UNLOCK12, cancelling by end of switching

**Parameter 04** - Setting of automatic release time for passage ( time out )

- value 00 –

No blocking before passage of person

- value 01-99 –

Time in seconds after which is turnstile blocked

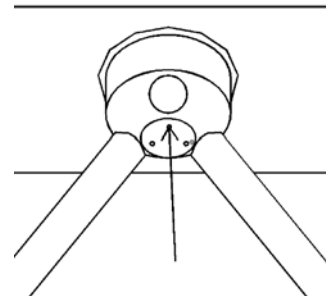
## Emergency release

In case of emergency there is a possibility to switch of the power in both directions. The tripod cross is unblocked.

## Assembly and disassembly of tripod cross (ATR800 and ATR900 series only)

In case of need we can remove the tripod cross as follows:

- screw out security screw from the tripod head
- screw out turnstile arm



## Maintenance

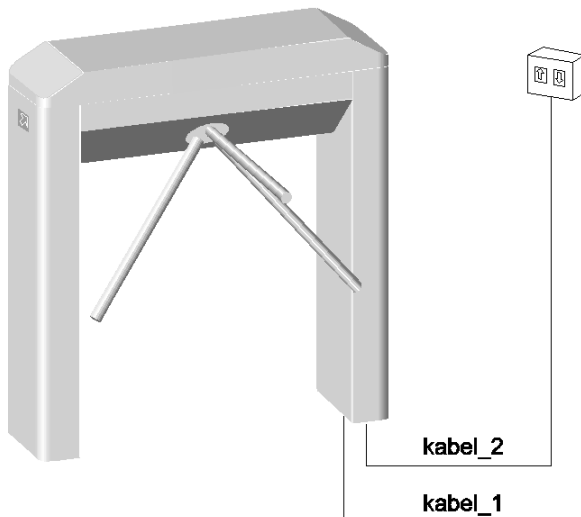
Due to the used materials the turnstile doesn't require any special care. Anyway it is recommended to check in regular intervals the tripod mechanics.

All the moving parts to be kept clean and free of aggressive parts.

## Optional accessories

- card reader
- push button
- access system

## Electrical wiring example



Cable nr.	Cable type
1	CYKY 3Cx1,5 230V AC/50Hz 160A/0,03A
2	TCEPKPFLE 3x4x0,6

**ES – Declaration of conformity**

1) Us

**AUTOGARD spol. s r.o.**  
**Dornych 47**  
**CZ - 617 00 Brno**  
**Identification no: 49446053**

**herewith we declare,**

that the following designated device on the basis of its conception and construction as well as the designs launched by us meets the relevant basic safety requirements of the decrees of the government (European directives). In case of any product modification not approved by us this declaration shall lose its validity.

Name:	<b>Bidirectional turnstile</b>	
Series:	<b>ATR 8XX; ATR 9XX</b>	
Technical datas:	<b>Series ATR 8XX</b> Dimensions: 770 x 995 x 884 mm Power supply 230 V AC, 50 Hz Control unit 24 V DC Weight: od 72 kg dle vybavení Casing: stainless steel, powder coating Control: electrical, mechanical	<b>Series ATR 9XX</b> Dimensions: 770 x 1060 x 1084 mm Weight: od 84 kg dle vybavení Power supply 230 V AC, 50 Hz Control unit 24 V DC Casing: stainless steel, powder coating Control: electrical, mechanical Optional accessories: reader, buttons, access system
Manufacturer, address:	<b>AUTOGARD spol. s r.o., Dornych 47, 617 00 Brno - CZ</b>	

Description and usage purpose: The two-way turnstile ATR 8XX and ATR 9XX is determined for the regulation of people motion in different spaces (e.g. commercial building, sports facility etc.). The turnstile can be used for intensive continuous operation both outdoor and indoor.

The relevant decrees of the government /European directives:

Decree of the Government no. 17/2003 Coll., (Directive of the European Council 73/23/EC),  
Decree of the Government no.18/2003 Coll., (Directive of the European Council 89/336/EC),  
In analogy: Decree of the Government no. 24/2003 Coll., (Directive of the European Council 98/37/EC).

The applied harmonized standards, national standards and technical specifications:

ČSN EN 60204-1:2000, ČSN 33 0120:2001, ČSN EN 61000-6-3:2002,  
ČSN EN 55011+A2:2003, ČSN EN ISO 12100-1:2004, ČSN EN ISO 12100-2:2004.

**The product is safe on condition of the common and determined usage.**  
**The producer has taken actions in order to ensure the conformity of all launched products with the technical documentation and requirements of the decrees of the government (European Directives) mentioned above.**

At the conformity judging was proceeded according to §12, par. 3, let. a), of the Law no. 22/1997 Coll. as amended by the no. 277/2003 Coll.

- 2) The declaration of conformity was carried out in the cooperation with the TÜV CZ s.r.o., the group Süd, Novodvorská 994, 142 21 Praha 4 – Czech Republic, Identification number: 63987121 – Product Certifying Authority.

The last two number of the year when the electric device was provided with the CE symbol: 04.

The Type Certificate was issued registration number 89/05/07/02/0, from March 9<sup>th</sup>, 2005, valid till: March 9<sup>th</sup>, 2008.

**BRNO, 18.3.2005**

Ing. Milan Plhák

Place, date of issue

Responsible person

Signature

