PROCONTROL®

ProxerGate3, 3E

Intelligent tripod turnstile

User manual

Version 2.3
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Welcome

Thank you for choosing Procontrol product.

Procontrol Electronics Ltd has grown to an important national company of developing and manufacturing software, hardware, electronic devices, access control, worktime control systems, queue control, client caller, and access protection systems since 1981.

Thousands of satisfied customers have experienced the security ensured by our long time period planning, reliable work, and the world trademarks standing behind us. Our qualified staff does its best to satisfy your requirements in electrical development.

Please visit our website: www.procontrol.hu

Trademarks

ProxerGate®   **ProxerPort**®

ProxerNet®   **ProxerLock**®

HI-GUARD®   **HI-CALL**®

Medi-Call®   **Pani-Call**®

Proxer®

IP Thermo®   **IP Stecker**®

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PROCONTROL® ELECTRONICS

PROCONTROL ELECTRONICS LTD.
www.procontrol.hu

ISO 9001
BUREAU VERITAS
Certification

Safety Regulations

Please read this guide before installing and using the device. Please use the device properly and as described in the following manual.

The guarantee is insured only if the device is used with the implements approved or specified by the manufacturer, and it is cleaned and maintained as described in this guide.

The authors are NOT liable for any claim, damages or other liability out of:

- using not the proper way

- incorrect installation

- connecting to inappropriate electronic network

- incorrect maintenance

- not approved modifications, interventions

- using non-original elements

- using with implements not approved or specified by the manufacturer

Only the technical service authorized by the manufacturer is allowed to do interventions in the device.
Do not try to modify or dismount any part of the device
Do not store and operate the device out of the given ranges.
Only use the device the proper way as described in guide.
Do not store the device close to a heat source or direct flame, because the device may explode.
ProxerGate3 is not for passing through with trolley case/ suitcase, larger baggage or backpack. We suggest Procontrol's ProxerGate Slip or ProxerPort gates for such function.
ATTENTION! The drop arm are planned to use at emergency situation. Do not drop it as daily use.

Delivery
Take care of shipping gently, avoid tipping and prevent screen from damaging.

Safety

Use the power supply provided by manufacturer for the device.

Attention! The turnstile may turn around at turn on and at restart.

Do not open the device. There are no user repairable components in the device.

To avoid fire and electrical shock:
Take care of nobody pushes trash, gums and stuff in the slots of the device.
Do not install attachments and accessories that are not designed to this device.

At installation
At the back of the device are heat deflector slots. Do not close these slots, that may cause malfunction in the device and that may effects fire.

Cleaning
Power down the device before cleaning the displays and sensor. Use wet rag. Do not use aerosol spray on the displays.
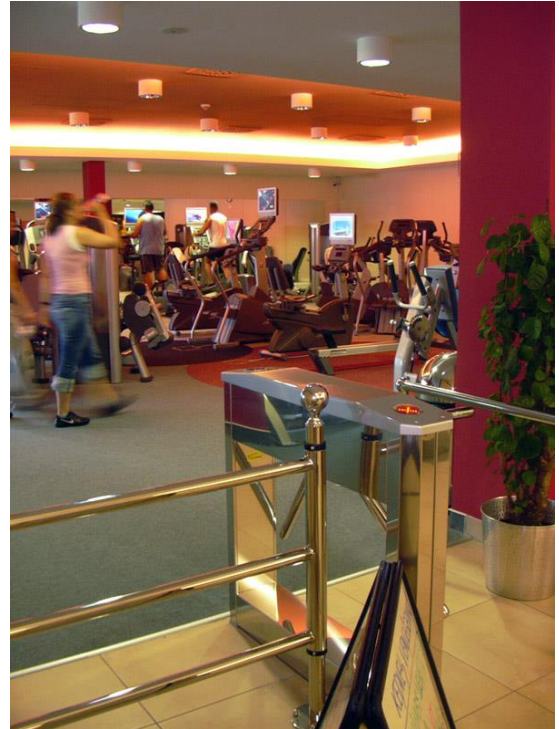Do not use sandpaper to clean the metal parts. Use the special metal cleaner which is recommended by Procontrol. Do not use other metal cleaners. Use soft rag and neutral dish soap, if special metal cleaner is not available.

General Features

The ProxerGate3 is an intelligent turnstile, it is used to authorised access.

Properties

- Automatic, electro-mechanical turnstile with proximity sensor
- Can be integrated into access control system, controlled by RFID card readers
- Can be connected to fire alarm systems
- Bidirectional application
- Reliable access control system
- Anti-pass-back function
- Nickel-chromium anti-corrosion stainless steel surface
- Outdoor, exclusive design
- 40 persons / minute flow rate

Options

- Barriers (nickel-chromium, bended, with glass or other types upon special needs)
- Can be connected to fire alarm systems
- Gate control readers (RFID proximity, barcode, fingerprint readers)
- Remote controls
- Emergency buttons
- Lexan rainproof cover components
- Audible and visible alarm units
- Gate controller options:
  - Date-, time-, voice recording
  - Stores movement directions
  - Identification
  - Displays name
  - Records reason of leaving
  - Working hours balance
  - Permission authorization
  - Event log
  - Tune, melody signals
  - Sabotage protection
  - Remote maintenance
  - Internet communication

Types

Some applications require giving free passage out when the fire alarm system or other emergency alarm system sends warning. Here are the distinct types upon how the turnstiles react on an alarm system warning.

1. ProxerGate3, basic model: In case of a fire, emergency the Proxergate3 rotary arm automatically switches into free to turn mode. Authorization checking becomes disabled, card reading is not required, and everyone is allowed to pass. The gate turns automatically before the person.

2. ProxerGate3E, drop arm version: The ProxerGate3E turnstile drops its arm automatically when emergency alarm sends warning, providing free passage.

Please note: The drop arm is planned for emergency situation. Not intend to use it for daily use.

Operation

Readers, entry terminals

The gate (depending on the mode set, but in general) checks authorization before the pass of a person. It is done by the card reader, which is located on the top of the gate.

Procontrol offers you a wide range of readers: Workstar, Proxer RFID proximity readers, biometric readers, like fingerprint reader or barcode readers.

The card readers are installed behind the semaphore.

If it is required it is an option to use a custom Procontrol card reader. Procontrol will redesign the gate to suit the card reader required.

Gate operation

ProxerGate3 works in contactless mode: you show your ID card to the card reader of the access control system.

The system checks if you are authorized to pass through the gate at the specific time. If access is granted, you will be able to pass.

When walking through the gates, your distance and speed are checked with optical proximity sensors. The arm will move according to your speed when walking towards it, so the gate will not harm you.

Easy and safe to use the gate: it has colour signals and tune signals. The system has emergency alarm in case of sabotage or violent access. These events are recorded in the event log.

Persons with disabilities and wheelchair users can use ProxerPort swing gate or ProxerGate Slip, which is designed for safe passing with wheelchairs also.

ProxerGate3 is not for passing through with trolley case/ suitcase, larger baggage or backpack either. We suggest Procontrol's ProxerGate Slip or ProxerPort gates for such function.

The turnstile can be connected to computer network through optional built-in access control terminals. The gate can be controlled and checked through Procontrol ProxerNet software, Access Control module.

Operation modes

- Both directions closed
- IN direction opened with authorized card
- OUT direction opened with authorized card
- Both directions opened with authorized card
- Both directions opened (without card)
- IN direction opened (without card)
- OUT direction opened (without card)
- Service mode

The modes can be default settings, or can be set through ProxerGate Remote Control.

States of the turnstile

Check the user guide of the ProxerGate Remote Control.

User guide

The turnstile access system works in contactless mode, motor-driven: you do not need to touch anything.

Passing through

Show your ID card to the access control reader. If you are authorized to enter, the semaphore displays a green arrow. It shows that the turnstile is open for you, you can pass.

Go through the turnstile, the arms will turn before you and close after you.

Other features:

After the green led lights up, the gate waits 5 seconds for you to pass. If you do not pass in this time period, the gate controller cancels your try and you have to show your card again.

If one person wants to enter and another one wishes to exit through the gate at the same time, the gate gives green sign for the person who has shown his card to the reader earlier.

Violent entry

You can pass through the turnstile only when the green arrow is shown.

If someone wants to pass without permission, the turnstile gives sound alarm. Optionally it can send a command to the camera system to take a digital photo about the person.

Prevention of dangerous situations

In case of any accident while entering through the gate, e.g. if someone tumbles over, the gate can be immediately stopped by pushing the optional emergency button. As you push the emergency button, the turnstile stops.

Turning off the power

If you need to switch the turnstile off, you can turn off the power by turning off the UPS 1240 uninterruptible power supply in the switch-box. The arms can be turned by hand in this case.

Safety

The access control gate does not do any harm on people. Its driving gear works with programmable strength torque-limitations.

No danger of electric-shock: the gate is built with low power 12V electric system. If you need to switch it off, you can turn off the power of the gate by turning off the UPS 1240 uninterruptible power supply in the switch-box.

Please note: The turnstile may turn around at power on and at restart.

Attention please

To avoid accidents please be aware of the following instructions:

- **Only one person can pass the gate at the same time**
- **It is prohibited to cling to each other, climb on each other's back while entering**
- **It is prohibited to pass violently, climb through the arms or climb onto the gate**
- **It is prohibited to open the gate violently by straining**

ProxerGate3 is not for passing through with trolley case/ suitcase, larger baggage or backpack. We suggest Procontrol's ProxerGate Slip or ProxerPort gates for such function.

The turnstile can be powered off by the power switch of the UPS 1240 uninterruptible power supply in emergency situation.

Technical description

Structure

ProxerGate3 turnstile access system is a designed, aesthetic and automatic device. Assembled on stabile frame structure. It has rotation part included three arms. The device has intelligent electronic system, sensors, controller unit, optional RFID or other card reader terminal, barcode reader and semaphore built-in. The whole surface made of corrosion resistant stainless steel. The roof of rotors made of stainless steel from 10.28.2016. A new roof made of 1.4301 stainless steel, K240 brushed finish.

Surfaces of ProxerGate3 can made of brushed stainless steel and the coloured according assortments of RAL colour chart.

Type	ProxerGate3
Function	Reliable access control system
Security level	It is reliable access system if it has extended management system. One-man passing through system.
Operation	Automatic, works with electric motor, contactless (hand turned version is available)
Proximity sensor (for accident protection)	Yes
Integrated in access control system	Yes
Bidirectional motion control	Yes
Numbers of pathways	One
Material, surface treatment	Nickel-chromium anti-corrosion stainless steel surface
Swivel part	Turnstile with 3 arms from metal
Make	Outdoor, exclusive make, rain protection is recommended
Flow rate	40 person/min
Dimensions	Look on the plan
Pathway size	Depending on the arm length
Useable identification solutions (depending on the used reader)	RFID proximity card, barcode, fingerprint
Can be integrated into Smart Building Management System	Yes
Can be connected to fire alarm system	Yes
Options:	
	Gate controller readers (RFID, proximity, barcode, fingerprint)
	Barrier mounts
	Connectable to fire alarm system
	Remote control
	Emergency button
	Rain protection roof
	Light and sound alarm
	Information and warning signs
Technical details	
Drawing No.	0741
Voltage: 12V DC	12V DC
Power:	3W (highest rate 200W)
Weight	56kg
Operating temperature	From -20 -to +45C
Relative humidity	max. 80%
Electric motor voltage	12 V DC
Other electric components (e.g. LED)	12 V DC
Passing speed	1 m/s default
Passing time	1,5 - 1,8 s
Waited time to pass through	5 s
Power unit	Servomotor
Types:	

	ProxerGate3: opened to passing when fire alarm is on
	ProxerGate3E: drop arm version, drops one arm, when fire alarm is on
Standards, qualifications	
	o CE certificate o 73/23 EEC now 93/68 EEC (Low Voltage Directive) o 89/336/EEC now 92/31, 93/68/EEC (EMC) o 99/5/EC (RTTE) o RoHS
Gate controller (default)	
Type	**Procontrol Workstar80**
Anti-pass-back function	Yes
Gate controller drawing no.	0827_R6
Gate controller voltage	12 V DC
Gate controller options	
	Date-, time-, voice recording
	Move direction recording
	Identification
	Name display
	Moving reason recording
	Worktime balance
	Eligibility inquiry
	Event recording
	Tune, melody signals
	Sabotage protection
	Remote protection
	Internet communication
	Body search alert
Power supply (default)	
Type	**UP1240**
Power supply drawing no.	1000-09
Power supply input voltage	230V AC / 1,1A
Power supply output voltage	12V DC / 20A

Maintenance

The ProxerGate 5 Glass turnstile maintenance tasks are in two parts:
- Maintenance of the mechanical system
- Maintenance of the electronic system

Maintenance of the mechanical system:

Clean the metal surfaces with the provided cleaner, and wipe it with soft, dry rag.

The power unit can be cleaned by only service center.

Make sure no water gets into the card readers and electronic parts!

It is necessary to check the screws at least in every six months.

Maintenance of the electronic system:

The manufacturer checks and maintains the electronic system at the location or through network.

Service centres – for more information please consult the Service Guide.

Fire safety certificate

The Procontrol Electronic Ltd., the developer, manufacturer and distributor of the ProxerGate 3 electronic access control system, declares the following:

The product

- has no flammable materials included

- is in conformity with the provisions of the [RoHS] specification

- does not make any injury at intended used.

- does not have electric shock risk: the turnstile works with low power 12V electric system.

- can be powered down by the power switch of the UPS 1240 uninterruptible power supply in emergency situation.

- can receive information from the automatic fire alarm system, it works without checking access rights in emergency situation.

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Senior managing director
Procontrol Electronics Ltd.

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Manufacturer contacts

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Please send us your enquiries and problems in detailed written form. Thank you.