# PEGAS HG
## BASIC CHARACTERISTIC

Atractive and slim design combined with glass and precious materials make **PEGAS-HG** suitable part for turnstiles and it is also the original solution of access control systems. It is suitable for representative entrance halls and lobby where the movement of persons through gates is monitored by receptionist. It is the best solution for handicapped persons, in case of movement of large objects or sudden evacuation. Different glass coloured design makes possible to suitably integrate the gate **PEGAS-HG** into any environment.

Gate **PEGAS-HG** is supplied with a motor driven unit and its silence and fluent operation ensures a higher user's comfort.

### Motor drive unit MT

Motorised unit of gate **PEGAS-HG** is characteristic by its high comfort, reliable and service-free running:

- effective blocking system in combination with motor drive unit
- high security level is provided by prompt turnstile movement stopping at the moment of obstruction detection
- silent and fluent running
- the possibility to open the gate after the pushing the wing by passing person

### Motor drive unit is supplied in two variants:

**FAIL-LOCK:** during power failure the gate is blocked and by using the backup device it is possible to ensure the standard gate's operation for a period of minimally 6 hours

**FAIL-SAFE:** during the power failure (or state of emergency) the gate is unblocked and it can be freely opened by hand in both directions
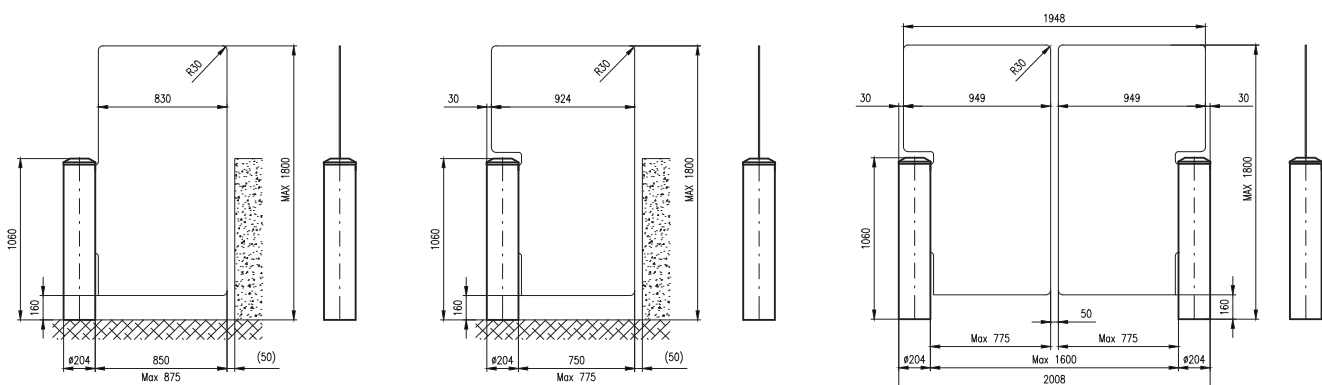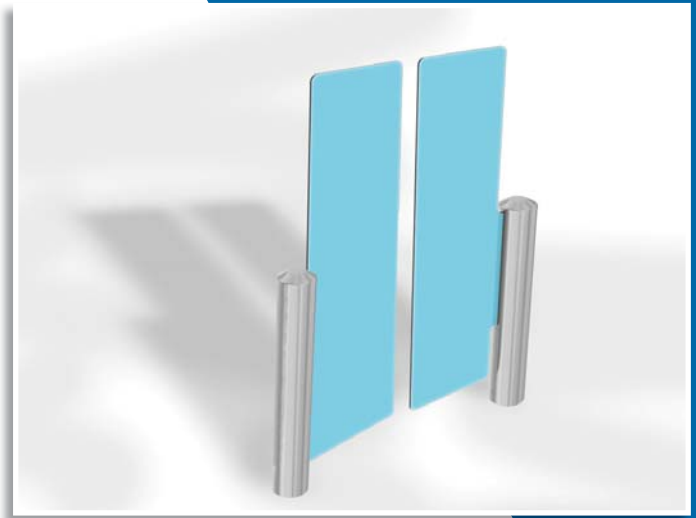
### Opening angle:

**PEGAS-HG:** makes possible to set up individually opening angle for entry and exit up to 90° (270° as an option).

### Materials and surface treatment:

**Central column:** stainless steel tube, Ø 204 mm (standard - polished or brushed stainless steel)
**Wing:** tempered safety glass, thickness 8 mm (10 mm as an option), frameless (standard – clear glass, width: 850 mm, transit width: 900 mm). In case of request for a wider transit it is possible to install **two PEGAS-HG** gates against each other whereby there is enough free space needed during movement or evacuation. Modern control electronics ensure a synchronous operation of this double gates configuration.

## Interface:

Turnstiles are controlled by microprocessor control units that is equipped with high effective processor. Control electronics is equipped with extensive subsystem that enables the connection of many input and output devices, all of them are galvanically isolated.

- device operating by status signals, serial bus RS 485, USB or Ethernet (with external converter)
- configurable two-state outputs about turnstile status
- motor control by digital power bridges with overload protection and current measurement
- include generating log file with a list of all faults accompanied with time/date mark
- possibility of remote firmware upgrade
- wide range of configuration and diagnostics parameters for remote customization using T-CONF software
- full remote control of turnstile network including passage counters status shown on PC using T-MON program
- enables back up accumulator connection directly in the turnstile (supports charging, measuring and auto-switching for power supply from accumulator in case of power failure)
- connectors for all input/output signals for fast and easy installation, service and replacement
- top-quality control electronics enables high operational reliability

**Using PC with T-CONF configuration software it is possible to select the following options to control the gate:**

- automatic opening after receiving the control signal for opening
- opening after pushing on gate's wing during the adjustable time to realize the passage
- automatic closing after expiry of adjustable time for passage
- closing after disconnecting permanent signal for opening
- closing the gate after receiving the control signal for closing

Control electronics ensures gate opening by both directions at an angle 90° (total angle 180°). At customer´s request it is possible to increase the total angle according to exact specification up to 270°.

Control electronics is protected against the short-circuit, overloading or mismatch of polarity.

## BASIC TECHNICAL PARAMETERS:
### Table of drive unit electric parameters:

| Type of drive unit | Rated supply voltage | Power consumption in basic operation modes | | |
|---|---|---|---|---|
| | | Standby mode break activated / break released | | Opening/closing |
| Motorised **FAIL-LOCK** | 13,8 VDC | 3 W | 12,5 W | 35W |
| Motorised **FAIL-SAFE** | 13,8 VDC | 12,5 W | 3 W | 24 W |

- standard range of working temperatures +10 ... +50 °C
- range of working temperature (with heating module) –25 ... +50 °C
- range of storage temperatures 0 .... +50 °C
- Maximum relative humidity 80% (non-aggressive environment)
- MCBF: 3.000.000 cycles (number of cycles before failure)

## ACCESSORIES
### External columns for accessorie:

Columns for placing of identification readers or other accessories (for example: TrafficLight LED information panel).

### Touch control panel:

- device for remote manual control of turnstiles with wide range of operational mode settings
- LED diodes to inform operator about actual turnstile status including alarms
- control of up to 4 turnstiles or 3 turnstiles + general emergency button

### Back-up accumulator:

During a power failure the accumulator ensures the gates PEGAS-HG running for a period of minimally 6 hours of continuous operation.

### Identification systems:

For verification of access right of passing persons it is possible to connect to the PEGAS any type of barcode, magnetic card, proximity card, smartcard card, biometric reader.

### Software accessories:

COMMUNICATION CLIENT – software that enables the connection of turnstile network with PC. This program runs on the backround (its activity is hidden) and enables to any PC with valid authority to make setting and control the turnstile network.

T-MON – program that enables to control the turnstile system from any PC with valid authorization in customer´s network. Remote control of the same turnstile is possible from different PC at the same time. It is fully graphic application that can be used even with touchscreen monitors.

T-CONF – program that enables to change the turnstile configuration, configuration backup, record new configuration, error report and firmware upgrade. It is localized to many world languages. It is possible remotely connect to any turnstile through Internet after fulfilment of all network qualifications.

### Specific features:

- choice of glass colour (transparent - standard, green, blue)
- glass design/logo according to architect's request

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