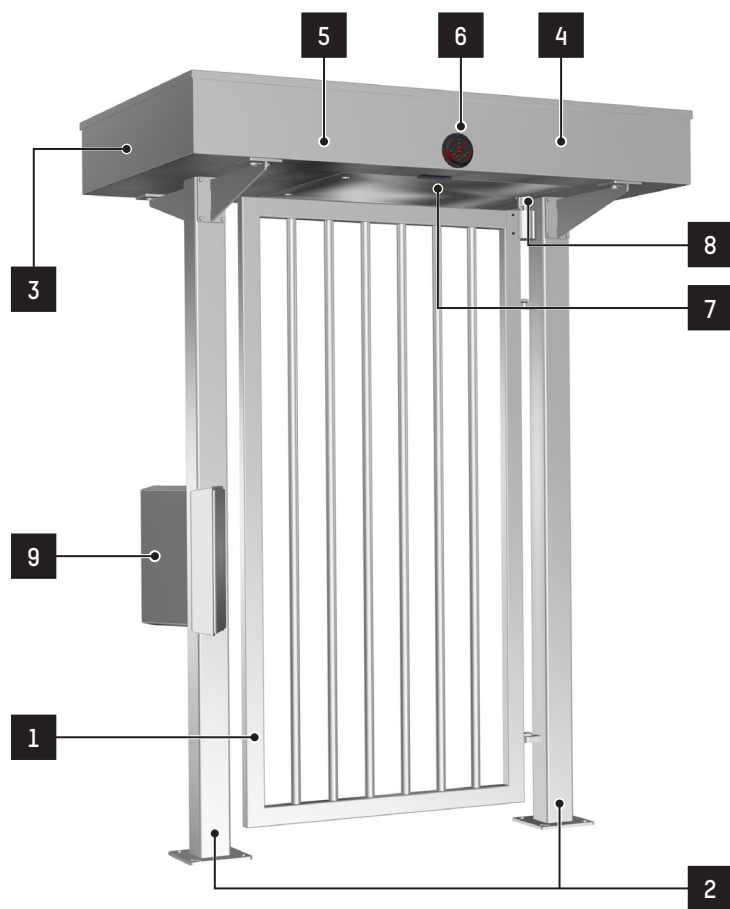


TRS PMR

Technical datasheet

Rev. 08 • Update 03/2025

AUTOMATIC
SYSTEMS



The PMR safety door is designed for access by persons with reduced mobility.

Totally autonomous and robust, this product is particularly designed to secure sensitive outdoor crowded sites, such as industrial plants, sports centres, commercial, office complexes, airports, power stations, amusement parks, military bases, car parks, etc.

The PRM door is bidirectional and available in a power or manually operated version.

This design fits perfectly together with the TRS37x product line for side-by-side or remote installation.

DESCRIPTION

1. Bidirectional PMR **service door**:

- Locked in rest position
- Opening cycle in both directions, at + and - 90°
- Offering a free passage width of 1050 mm
- Returning automatically in the central lock position

The moving part of the door is made of steel tubes welded on a frame and fixed to the upper rotor and lower pivot.

2. **Two structural posts**, composed of square steel profiles, restrict the width of the passage and support the head unit and reader boxes (Optional items).
3. The **head unit**, made of metal sheet, integrates the locking mechanism and the control logic. The access doors are protected by locks and keys. A diamond point roof is included and useful for water drainage.
4. **Feed mechanism** consisting of:
Manually-operated version:
 - Compensating arms with tension springs to keep the obstacle in neutral after passage.
 - Hydraulic damper slowing movement at end of cycle to enhance ease of use.
 - Electromagnet and cams ensuring mechanical locking of the obstacle in neutral position.**Power-operated version:**
 - Brushless 24 V motor assembly.
 - Pulley and belt movement transmission. The belt is tensioned by a tensioning roller.
 - Solenoid and cams for mechanically locking the barrier in the at-rest position.
5. **Control logic** whose main features are:
Manually-operated version:
 - Parameters set using an integrated keyboard and LCD screen, or a Modbus link with remote control.
 - Connection block for various commands (readers, unlocking ...) and recovery of information (position, counting ...).
 - Configuration of controlled operating mode.
 - Management of time delays (of absence of passage for instance).
 - Memorization of passage requests.**Power-operated version:**
 - Parameter setting via built-in web interface or via XML/RPC link with remote controller.
 - Terminal block for various commands (readers, unlocking, etc.).
 - Configuration of the controlled operating mode.
 - Time delay management (delay after passage in particular).
6. **Orientation pictograms** on the head unit.
7. **Passageway lighting** in the head unit.
8. **Dust-free seal** between the door axis and the upper housing.
9. **Aluminum reader box**, equipped with a front panel in Trespa®, mounted on the TRS upright. If the opening is controlled in both directions, this type of box can be installed in direction A or direction B. (available as an option).
10. Automatic Systems supplies the anchoring bolts to fix the equipment upon firm flooring.




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OPERATING MODE

In each passage direction, the following configurations are available (to be specified when ordering):

1. Locked all the time, but unlocked in case of power failure.
2. Electrically controlled (free, locked, passage subject to authorisation) and mechanically locked in case of power failure.
3. (Standard version) Electrically controlled (free, locked, passage subject to authorisation) and unlocked in case of power failure.

STANDARD TECHNICAL CHARACTERISTICS

Power supply	100 - 230 V single-phase 50/60 Hz	
Power consumption at rest, without heating	30 W	
Power consumption in movement, without heating	60 W	
Ambient operating temperature	from -10 to +50°C	
Relative ambient humidity	95%, without condensation	
	Manually-operated version	Power-operated version
Net weight	207,4 kg	220 kg
Flow	20 passages per minute, depending of the reaction time of the access control reader	
MCBF (Mean cycles between failures)	1,000,000 cycles, in compliance with recommended maintenance	
MTTR (Mean Time To Repair)	20 minutes	
IP rating	IP43	
	Complies with European standards	

OPTIONS

Light sensitive switch*.
Heating for operation up to -35°C .
Power supply 120V 60Hz (compliant with UL standard).
Non standard RAL colour.
Treatment for aggressive saline environment. ①
Rotating door made of stainless steel 304.
Canopy - Single passage AB.
Two big boxes for integration of access control features - Single passage - A & B directions*.
LED pictograms on boxes (single lane) - A & B directions.
Fixing frame.

① Recommended for an installation within 10 km of the coast: sandblasting + Alu Zinc plating 80µm outside (40µm inside) + polyzinc 80µm + 80µm powder coat..

* Requires a TRS PMR managed by logic.

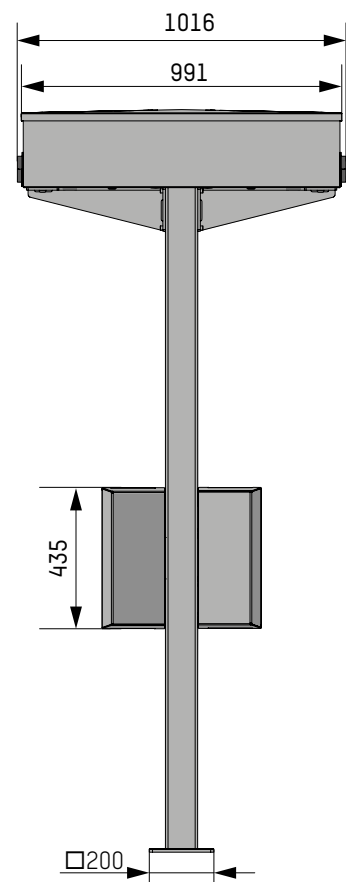
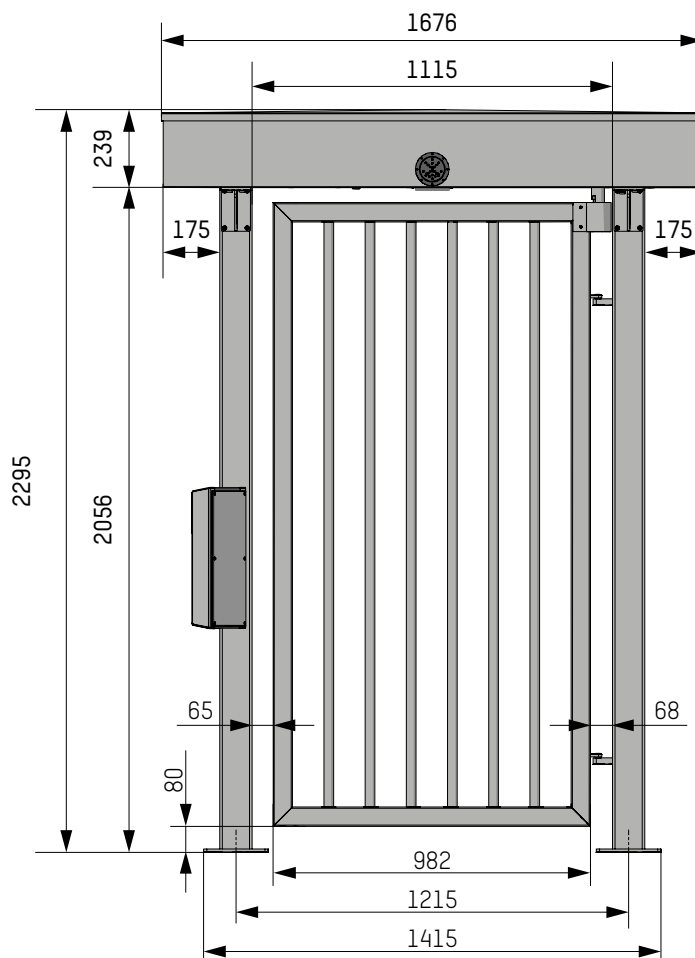
SURFACE TREATMENT

- Internal mechanical parts are galvanized.
- Moving obstacle and vertical posts are galvanized and painted.
4 colours available RAL7038, RAL6005, RAL7016 or RAL9010.
- Upper casing is sandblasted + metallized and cover with two layer of paint, RAL7038, RAL6005, RAL7016 or RAL9010.
- Roof in aluminium protected with two layer of paint, RAL7038, RAL6005, RAL7016 or RAL9010.

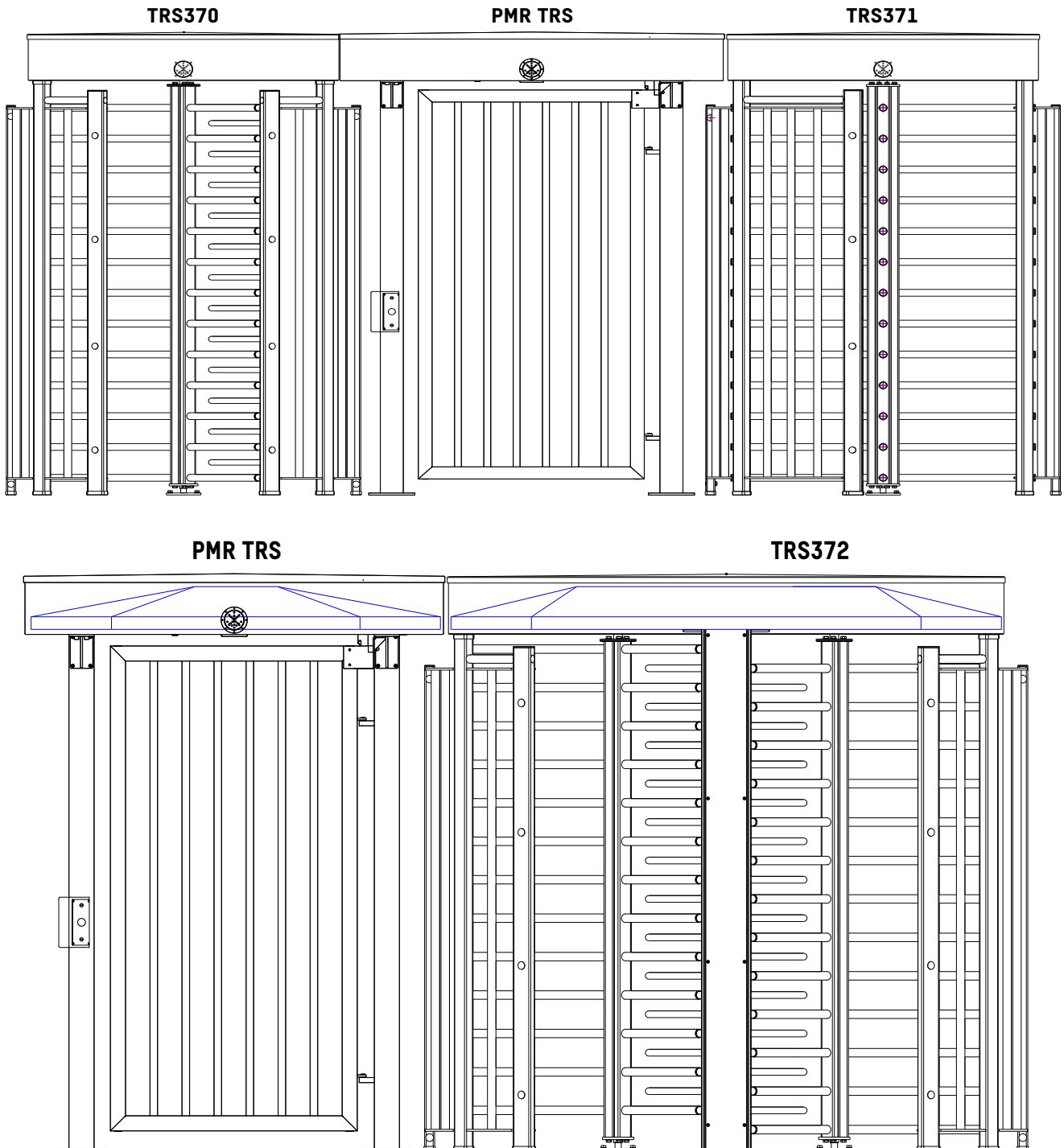
WORKS TO BE PROVIDED BY THE CUSTOMER

- Masonry work as required per general layout drawing.
- Power supply.
- Anchoring to the floor.
- Electrical connections to the access control system.

STANDARD DIMENSIONS (MM)



EXAMPLE(S) OF COMBINATION(S)



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