

TRAFFIC BARRIERS

The Contractor shall supply, install, test and commission 2 sets of high quality motor operated automatic traffic barriers of an approved manufacturer and design to organize the in / out vehicle movements in both the entrances of the building.

The system shall be supplied and installed by a specialist contractor, who shall be the main agent of the equipment supplied.

The system shall be supplied complete with a sufficient number of Remote Control Units.

The contractor shall submit to the Consultant 5 Copies of Descriptive Literature, Technical Data, Catalogues, List of Materials, Maintenance recommendation and Installation Instructions of all the Products used for Consultant/Client approval before the starting the work.

All the equipment and components shall conform to the European directives.

1. General:

- 1.1 Separate barriers shall be installed for the incoming and outgoing vehicles.
- 1.2 Entering the barriers via remote control and exit by magnetic loop. At the Exit, the Vehicle is detected by an induction loop situated several meters in front of the barrier.
- 1.3 Barriers shall have self-locking gear motors and safety photo-cells.

2. Equipment's Specifications:

- 2.1 High performance fully automatic Electro-mechanical arm barriers in white with red straps. Each Module of the arm has a safety switch trim.
- 2.2 Single phase main control panel (open-stop-close). The control Unit is powered by 230V A.C. The operation of the electronic control panel is managed by an intelligent microprocessor unit, and it is fitted with visual diagnostics via LEDs to check the state of the input and output of the control unit.
- 2.3 Barrier shall have self-locking 12 V DC gear motor. In case of power failure, the non-reversible motor can be unlocked with special key.
- 2.4 Limit switches, speed regulation and obstacle detection shall be dedicated to the controls adjustment of the electronic control panel.

- 2.5 Motor housing shall have door and lock in galvanized sheet with Polyester coating.
- 2.6 Flashing light indicating barrier movement on the housing. It shall have a Built – in Antenna, 433 Mhz Radio Receiver & support for surface wall - mounting.
- 2.7 Modulated infrared ray photocells. Weather-proof and mechanically resistant outside container. Pair of photo cells for mounting under the arm between the housing and column.
- 2.8 Two Channel Radio Control with 433.92 Mhz operating frequency. Powered by a 12 V D.C. battery.
- 2.9 Single Channel, magnetic mass detector with undecal socket, 2 Outputs.
Supply Voltage 12V D.C.
- 2.10 The barrier body shall be equipped with:
 - Barrier housing and door in paint-finished steel.
 - Barrier cover in paint-finished steel.
 - Arm support cover in paint-finished steel.
 - Low voltage motor, 12V D.C., with gears enclosed in two welded diecast aluminium sections and permanent grease lubrication.
 - Manual release in plastic.
 - Arm support flange and balancer in galvanised steel.
 - Electronic control unit with board for control of 1 or 2 motors (in the case of two combined barriers).
- 2.11 Magnetic Loop for mass detection at the exit gate.
- 2.12 The system shall have the below technical specifications:

Technical specifications

Supply voltage (Vac) (+6% -10%)	:	230
Frequency (Hz)	:	50-60
Maximum power (VA)	:	220
Motor supply voltage (Vdc)	:	12
Rated motor power (W)	:	45
Operating temperature (°C)	:	-20 to 55
90° opening time (sec)	:	3 to 6 adjustable
Protection rating	:	IP 45

3. Maintenance:

The system shall be warranted for a period of 12 months after final approval. To maintain the system in a proper working condition a maintenance contract is strongly recommended.