

# PRODUCT SHEET City6 AT224 Controller, with optional centralisation



**PNEUMATIC OR HYDRAULIC MOTORISATION**



## DESCRIPTION

The City6 controller with centralisable Siemens AT224 PLC is designed to supervise operation of automatic retractable bollards with electro-pneumatic or electro-hydraulic motorisation depending on model.

It can also run simultaneously the interface between a bollard and a barrier or an automated gate.

A heavy duty oil-free compressor or a hydraulic group supply air or oil to the bollards.

The PLC, the compressor and operation logic components are accessible from the front door (2). A smaller trap door (for emergency use) gives access to a push button wherefrom the bollard can be forced down. When a ticket printer has been installed, its paper roll can be replaced using another side trap door. The polycarbonate printed front face integrates a red/amber position light and control components available on option.

This PLC can run a complete access site (with URBACO limit switches, bollard position lights, induction loops, control actuators, compressor surveillance).

LED indicators analyse and show input and output status.

The PLC is connected on communication network through a RS485 connector and signal converters to a PC where the Sygma2 supervision software is installed.

The exchange of data between PLC and software enables:

- Real-time transmission of all data available from access location (bollard position, loops status, lights status, faults...) to the software.
- Up-/Downloading from the computer into the PLC of free access timeframes, of selective hours when access has to be open, as well as internal operation parameters.

By installing a URBACO card reader, the City6 controller becomes completely centralisable with management of users' cards from the computer. Depending on communication network (point-to-point wireline, fibre optic, IP...), the hardware used to centralise the City3 controller will be different: current loop modem, fibre optic converter, IP converter...

## OPERATION

Depending on configuration, bollard descent is actuated by user (badge...) and bollard rises back automatically.

Dimensions	Weight	Colour
H1860 x Ø325 mm	~110 kg	RAL 7016 Charcoal Grey
Protection Degree	Material	Insulation
-	Steel >> 6 mm	Class II Phonic / Thermal
Ventilation	Locking	Temperature
Forced 24 V	Special lock & imprint	-10°C to +55°C
Power Supply	Power	Operability
230 V (Bipolar + Earth) 16A	~500 W	Non-stop

## COMPONENTS

- 1- City3 controller,
- 2- Maintenance door, with lock,
- 3- Trap door (emergency use) with lock, square imprint and push-button,
- 4- Printed front face with control actuators (example),
- 5- Siemens AT224 PLC,
- 6- Heavy duty compressor,
- 7- Ground-fault circuit interrupter,
- 8- Connection terminal rack,
- 9- Ventilation,
- 10- Documentation,
- 11- Key to emergency door,
- 12- Key to front door and front face,
- 13- Embedding base.



Card reader (optional)  
Red / Amber Position Lights

## CONNECTIONS

All connections are made on a numbered terminal rack. A 30mA ground fault circuit interrupter ensures protection of users.

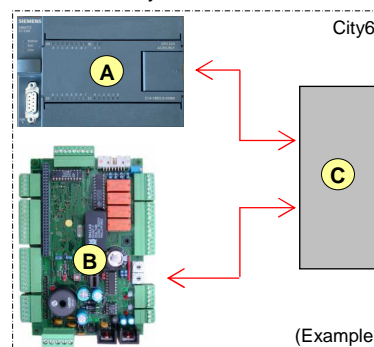
## SURFACE FINISH

Primer zinc coating to increase resistance to corrosion and add on adherence to the surface finishing.

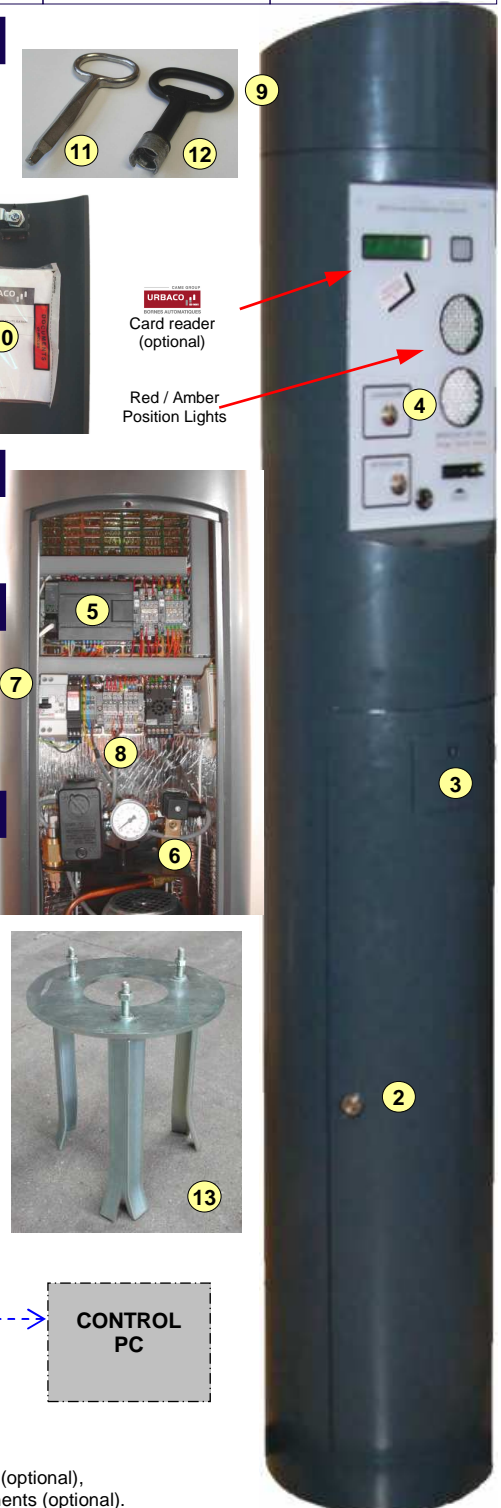
Thermosetting polyester powder paint, matt finish,  
**Standard colour: Charcoal grey RAL 7016**

## OPTIONS & ACCESSORIES

- Colours: all RAL shades available as option,
- RE432 radio transmitters and receivers,
- Control actuators,
- Operation logic programmes,
- Heater,
- 5-litre air reserve,
- Safety loops and detectors,
- Communication devices (intercoms),
- City6 centralisation,
- Additional City6 module.



- (Example):  
A - AT224 PLC,  
B - URBACO card reader (optional),  
C - Centralisation components (optional).



## Option for Additional Module



### DESCRIPTION

The City6 controller is designed to be composed of different modules.

The standard version is upgradeable depending on requirements just by adding one or several intermediate modules between the cap top and the lower part. Remove cap top, fix the module(s) on the lower part, and put the cap top back on.

In addition to that, all parts may each be oriented in any direction: loosen screws, turn the module and position it to your liking, tighten screws back. The module also comprises a printed 340 mm front face to place position lights on for instance. It opens with a quarter-turn lock to facilitate mounting. Asymmetrical DIN rails are welded on the back wall of the module to fix a perforated metal grate for inner components (hardware, electronics...) to be installed on.

Dimensions	Weight (bare)
H420 x Ø325 mm	18 kg
Protection Degree	Material
-	Steel >< 6 mm
Colour	Insulation
RAL 7016 (Charcoal grey)	Phonic / Thermal
Orientation	Number of modules
360°	Unlimited

### SAMPLE SET-UP

- 1- City 6 with 1 additional module (e.g. for an access location with a one-way traffic),
- 2- City 6 with 2 additional modules (e.g. for an access location with two-way traffic).

### OPTIONS & ACCESSORIES

- Colour: other RAL shades available,
- Front face with red and amber position lights Ø65 mm standard (A) with or without control actuators and communication devices,
- Front face with position light Ø200 mm red or amber (B),
- Front face with position lights red and amber Ø85 mm with lens and suncover as an option (C).

### ASSETS

- Lights are clearly visible from a distance because they are installed high up above ground level and perfectly positioned and adjusted with traffic flow.
- Integration of control actuators or communication devices at specific levels to be accessible for truck or bus drivers for instance.

### SURFACE FINISH

Primer zinc coating to increase resistance to corrosion and add on adherence to the surface finishing.

Thermosetting polyester powder paint, matt finish,  
**Standard colour: Charcoal grey RAL 7016**

