

Authorized Dealer



**A TO Z
ENGINEERING
SOLUTIONS**

Think Smart  *Live Smart*

Market segment
Mixed use

Location
6th of October, Cairo, Egypt

Total area
27,000 m2 (290,626 ft2)

Project type
New construction

Protocol
BACnet, Modbus

Installation type
HVAC

Italian Square Mall parking garage

Project Profile

Italian Square Mall is a multiuse facility in a quiet suburb west of Cairo and Giza that includes residential, commercial, administrative, and medical spaces. More than 80 percent of the 40,000-square-meter property is dedicated to green space. The facility was designed in Italian style and is situated in the Italian Quarter of the city.



Authorized Dealer [A to Z Engineering Solutions](#) installed a Reliable Controls system to monitor carbon monoxide, automate indoor air quality, and trigger fans in case of smoke or fire in the parking garage at Italian Square Mall.

Total system objects
25

Installed equipment



1 MACH-Pro2™
controller



3 MACH-ProPoint™
Output expansion
modules



The flexibility of RC-Studio and RC-Toolkit software allowed A to Z Engineering Solutions to easily integrate third-party CO2 sensors. RC-Studio is an easy-to-learn, easy-to-use engineering tool that helps building owners improve operational efficiency, increase occupant comfort, and achieve their sustainability goals. With its suite of diagnostic tools, RC-Toolkit enabled A to Z Engineering Solutions to optimize network communications in the parking garage. A unique challenge of this project was the lack of network documentation available from the main contractor, but the technicians at A to Z Engineering Solutions were able to trace it on their own.

A MACH-Pro2 controller, expanded with MACH-ProPoint Output modules, provides control of jet and exhaust fans. The MACH-Pro2 is a rugged, fully programmable BACnet Building Control ideal for small mechanical room applications like this one.

The new Reliable Controls building automation system provides facility managers with peace of mind that the air in the parking garage is healthy and sustainably monitored now and for years to come.

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