

# HEPTAGON

SINGAPORE

## INTRODUCTION

Heptagon designs and manufactures modules for consumer electronics, including cameras, lenses, lights, and optical and 3D sensors. The company specializes in tiny optical components for applications like smartphones, tablets, gaming, and telecommunications.

## PROJECT DETAILS

Authorized Dealer [VACE](#) installed a Reliable Controls building automation system during a combined retrofit and new construction project.

The mechanical equipment in the facility included a closed-loop chilled-water system, makeup air-handling units that serve clean rooms, fan-coil units, and an exhaust fan system.

VACE networked a MACH-ProSys controller to monitor alarms, air pressure, flow rate, energy consumption, and duct static control. Four MACH-ProCom controllers expanded with MACH-ProPoint Input/Output modules control makeup air-handling units, fan-coil units, and dehumidifiers. The building automation system also controls the temperature, flow rate, pressure, conductivity, and resistivity of a deionized water plant as well as pH levels in wastewater and differential pressure in production areas.

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**MARKET SEGMENT**  
Manufacturing

**PROJECT TYPE**  
Retrofit and new construction

**INSTALLATION TYPE**  
HVAC

**PROTOCOL**  
BACnet

**INSTALLED EQUIPMENT**  
4 MACH-ProCom™ controllers  
23 MACH-ProPoint™ Input/Output expansion modules  
1 MACH-ProSys™ controller

**TOTAL SYSTEM OBJECTS**  
238

**RELIABLE CONTROLS AUTHORIZED DEALER**



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