

FLEXTRONICS

SINGAPORE

INDUSTRIAL

ASSEMBLING CONTROL

Headquartered in Singapore, Flextronics is a leading Electronics Manufacturing Services (EMS) provider for blue-chip OEMs. The Flextronics building at 2 Changi South Lane consists of warehouse facilities, assembly, and clean room facilities while also housing the offices of Flextronics Logistic and Flextronics Technology.

PROJECT DETAILS

VACE Pte Ltd, a Reliable Controls[®] Authorized Dealer in Singapore, was contracted to migrate the existing BAS to an open and efficient system, instead of upgrading a competitor's existing proprietary system. The MACH-System installed at Flextronics monitors and controls the central chilled water plant which consists of 3 air-cooled chillers, 2 water-cooled chillers, 5 chilled water pumps, 2 condenser pumps, and 5 cooling towers. The central chilled water system runs 24/7 and supplies chilled water to the office area, warehouse area, production and assembly line, and clean room facilities. Offices and warehouse are constantly cooled by fan coils units and air handling units.

MACH-Zone[™] and MACH-Stat[™] controllers were deployed to control the mechanical equipment. The facility's legacy BAS system monitored I/Os that were not essential to the customer's operation requirements. During the installation of the MACH-System, the unnecessary points were omitted with the result being better control of room temperature in the general office area. As well, where constant setpoints had previously resulted in over cooling, outside air temperature was used to reset the room temperature setpoint.

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PROJECT TYPE:

New Construction & Retrofit

INSTALLATION TYPE:

Chiller, Fan Coil Unit, HVAC

TOTAL AREA:

26,300 m² (283,090 ft²)

EQUIPMENT INSTALLED:

**3 MACH-ProSys[™]
4 MACH-ProCom[™]
9 MACH1[™]
10 MACH-ProPoint[™]
25 MACH-Zone[™]
31 MACH-Stat[™]**

NETWORK:

EIA-485, Ethernet, Wireless

INTEGRATION:

Modbus

TOTAL SYSTEM POINTS:

718 points

RELIABLE CONTROLS[®] DEALER:

VACE Pte Ltd