

BUILDING AUTOMATION SYSTEMS



COMPLETE BUILDING INTEGRATION

AIRTEK intelligent building automation systems can be used in various locations that require central control of electrical and mechanical equipment, such as commercial office buildings, shopping centres and hotels etc,

The system is in accordance with the worldwide standard BACnet open protocol and have obtained BTL certification, meaning high compatibility and integration with different manufactures/vendors.



Management Layer

BACsoft is the windows based software with 3D graphics, it is used to access and monitor all field devices



Touch Screen
NVP215PE 21.5"
NVP156PE 15.6"
NVP121PE 12.1"



Integrated Control Devices

GC/WC devices are global network integrated controller, used to coordinate, communicate and manage the operations of the site, WC devices are web embedded for remote access & send email

WC-8846



GC-SMSB
SMS Capability



BACems

BACems devices carry out trend logging with web embedded for remote access



VRF/VRV BACnet GATEWAY



PE-ME11

Convert BACnet to Modbus



PV-BM21



Field Control Devices

DAC/DSC devices are individual operating programmable controllers, used to control building electronic and mechanical equipment. A large product selection means many different combinations for input/output points, DAC+/DSC+ have built in keypad, DACBT/DSCBT have built in operator display (touch screen)

DACBT



DAC+



VAV



Variable air volume Actuator with inbuilt controller

DAC





Expansion Input/ Output Module

DIN devices, field expansion module containing no program, connect to network for additional inputs and outputs

DIN



EIMXM



EIM



EIM expansion module to connect to GC/WC/DAC/DSC to provide additional input and outputs

Human Machine Interface

NVT operator displays (touch screen & custom 3D graphics) can access and monitor any device on the network and change points. 7/12/15/21 inch version also displays scheduling.

NVT



MFC



MFC operator controller, can access and monitor only device connected to, on/off, mode, fan speed and temperature setting.

DST



DST operator display (touch screen), custom 3D graphics, can access and monitor, change points, connected to individual device only

NVP20V



Lan viewer and scheduler

Plant and Equipment

AIR HANDLING UNIT



CHILLER



VARIABLE SPEED DRIVE



ACTUATOR



ENERGY METER



ENERGY FLOW METER



VAV BOX



Panasonic VRF gateway protocol converter

Approved and lab tested by Panasonic, connects to CZ-CFUNC2



CZ-CFUNC2



Up to 128 indoor units

Hotel/Apartment Controller



fancoil

DFC controller designed for hot and cold water control, ideal for hotels and apartments, includes control panel

ARCHITECTURE

