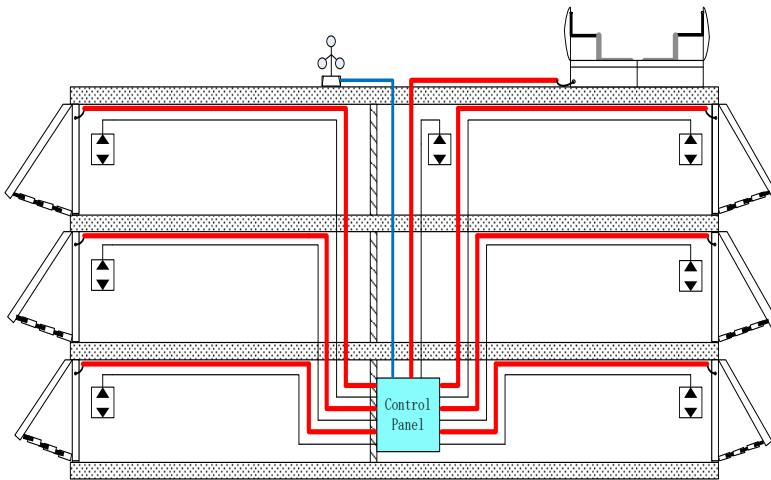


PRODUCT DATASHEET

CANBus-Driven Addressable Windows Controls (AWC)

For motorized automatic vents for smoke and natural ventilation system



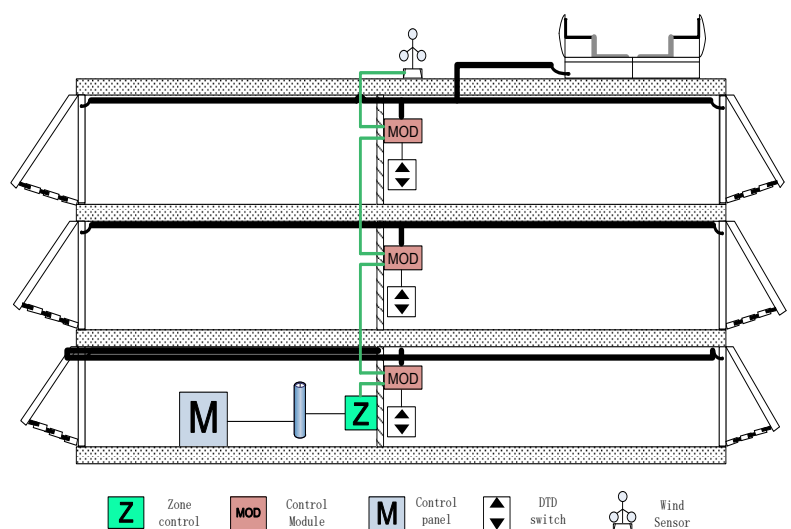
Conventional System - Cabling

Conventional Window Controls

- ◇ Simple to use and no frills
- ◇ Suitable for small system without complex controls
- ◇ Costly rewiring is required for changes in controls once installation has been completed
- ◇ Limited functionality and no up-grade is available in future
- ◇ Installation costs are higher for cabling and cable containment.

Addressable Window Controls (AWC)

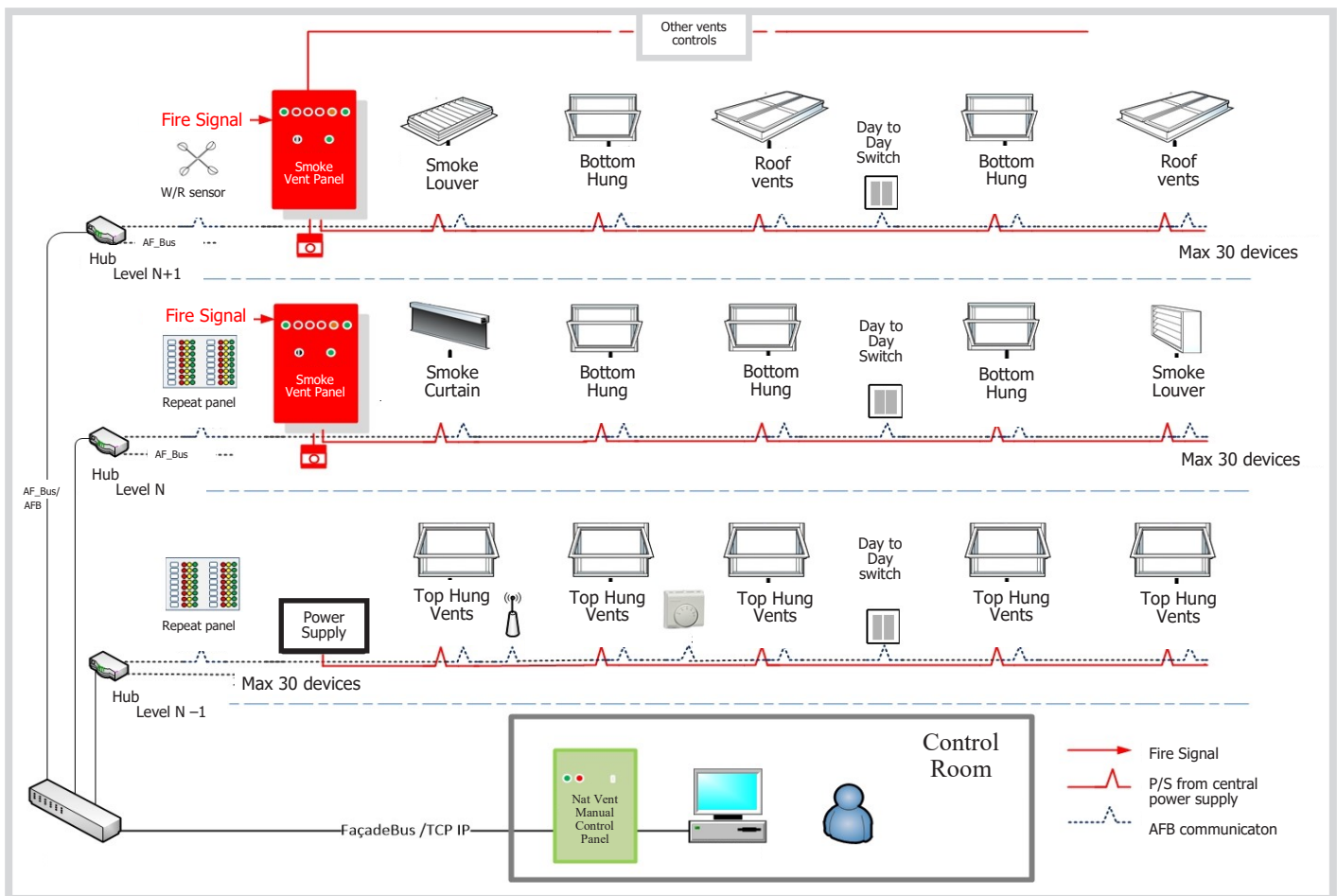
- ◇ Suitable for use in buildings required complex controls. Software based controls up to 9999 devices for flexibility;
- ◇ Reliable AF_bus scalable for high speed communication with immunity to interference;
- ◇ Ease of design and installation for specifiers and installers, last minute changes in control is possible to meet client's desire without expensive rewiring;
- ◇ Lowest lifetime cost for building owners. Surveys shown that average office layout changes every 18 months, there is no expensive hard wiring cost in future system upgrade.
- ◇ Precise control and true status monitoring are possible by either built-in MMI or by 3rd parties BMS.



Addressable Window Controls System (AWC)

PRODUCT DATASHEET

CANBus-Driven Addressable Window System



Technical Details

Max capacity: 9999 Physical Devices

Natural Smoke Zone

Max. capacity: < 128

There is no limit of AOV in one smoke zone. All lines are being monitoring for fault reporting for short and open circuits

Natural Vent Zone

Max. capacity: < 9,999

Each address can be controlled by either addressable switch or automatically by BMS or environmental sensors.

All devices are being connected a 4-core cables. 2 for 24Vdc supply and another pair for data communication for AFB.

Additional devices can be added or removed from the AFB, and changes in the system configuration is required in the master controller panel.

Example, if you want to split 1 zone to 2 controls zone and controls by 2

switches, the things that you need to do is to add one switch to any nearest devices with a 4 core cables, and reconfigure the system software locally to implement the changes.

Environmental Sensors

Environmental sensor, such as thermostat, hydrostat, CO2 sensor or presence detectors can be connected to network to implement automatic controls.

Manual Controls

Beside wired options of manual controls, Hand held remote control can be appended to an interface unit for ease of manual control.

Integration to 3rd parties equipment

3rd parties equipment can be integrated into AWC by using interface units. Legacy system can easily be incorporated into the system to scale the system improvement by stage.

Controls System

Systems can be used as a stand alone system or integrated with 3rd party

SCADA system via open protocol, such as ModBus/TCP/IP.

Remote Access

Master controller has a built-in engine for web browsing capability which can connect to any mobile phone or tablet either via intranet.

A cloud services is available to connect your remote devices to AWC system. You can easily monitor the system and push you filtered system message if you want to receive them accordingly.

PRODUCT DATASHEET

CANBus-Driven Addressable Windows Controls (AWC)

System 3800 Controller/PSU/Interface Unit/Sensor

Master Controller (S3300 and S3800)



NV.A.MA.99.99

Master Controller Module for S 3300 and S 3800

Order Code:

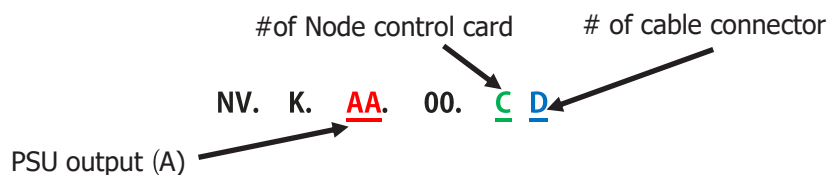
NV.A.MA.01.00	AWS S3300/S3800 Master Controller	< 100 addresses
NV.A.MA.05.00	AWS S3300/S3800 Master Controller	< 500 addresses
NV.A.MA.20.00	AWS S3300/S3800 Master Controller	< 5,000 addresses
NV.A.MA.50.00	AWS S3300/S3800 Master Controller	< 2,000 addresses
NV.A.MA.99.99	AWS S3300/S3800 Master Controller	< 9,999 addresses

Housing and graphic terminal to be ordered separately c/w power supply and connectors. (Please enquire our sales representative for details)

S3800-PSU

Node Controller with Power Supply and cable connectors

Order Method



Example

NV.K.10.00.10	10A MWS CAN PSU Panel, c/w 1 NV node
NV.K.20.00.20	20A MWS CAN PSU Panel, c/w 2 NV nodes
NV.K.20.00.21	20A MWS CAN PSU Panel, c/w 2 NV nodes, 1 cable connectors
NV.K.60.00.44	60A MWS CAN PSU Panel, c/w 4 NV nodes, 4 cable connectors
NV.K.80.00.54	80A MWS CAN PSU Panel, c/w 5 NV nodes, 4 cable connectors
NV.K.80.00.60	80A MWS CAN PSU Panel, c/w 6 NV nodes
NV.K.80.00.83	80A MWS CAN PSU Panel, c/w 8 NV nodes, 3 cable connectors

S3800-MOD

AWC Modules (24Vdc, CANbus)

NV.K. I T.22.00	CAN bus Interface Unit (2 IN 2 OUT) module only
NV.K. I T.22.01	CAN bus Interface Unit (2 IN 2 OUT) with enclosure
NV.K. I T.84.00	CAN bus Interface Unit (8 IN 4 OUT) module only
NV.K. I T.84.01	CAN bus Interface Unit (8 IN 4 OUT) with enclosure
NV.K.WF.04.00	CAN bus Window Actuator Interface Unit 4A module only
NV.K.WF.04.01	CAN bus Window Actuator Interface Unit 4A with enclosure

S3800-SW

Addressable Day to Day Switch

NV.K.SW.A0.86	CAN bus Addressable Switch module
NV.K.SW.A3.86	CAN bus Addressable Rocker Switch, 3-position Spring return
NV.K.SW.A4.86	Same as NVKSWA386, c/o status display
NV.K.SW.A4.86	CAN bus Addressable Rotary Switch, 3-position Spring return