

QUICK SETUP GUIDE MA-VAV

INSTALLATION/MOUNTING

The MA-VAV must be mounted indoors and on a flat surface.

1. Attach the actuator to the VAV box shaft
2. Attach the MA-VAV enclosure to the VAV box/duct using a screw in the indicated position
3. Attach the pressure sensor tubes of the MA-VAV to the pitot tubes on the VAV box. The pressure sensor is not polarity sensitive.



WEBSERVER

Connect an Ethernet cable to either of the two Ethernet ports on the MA-VAV and then to a computer or switch.

To access the webserver, enter the default IP address 10.1.1.240 in the URL bar using any web browser. The default subnet mask is 255.0.0.0.

To temporarily reset the IP to factory default, press the button on the Ethernet card for 10 seconds. The Oper LED will blink rapidly to indicate success. The IP will switch to default until the MA-VAV is restarted.

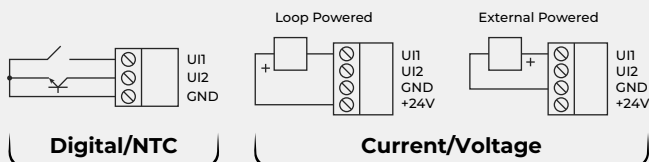
SETTINGS

To access the settings, click the Settings tab on the webserver. The default credentials are config/config for the user and password respectively. These can be changed in the misc section on the left sidebar.

INPUTS/OUTPUTS

The universal inputs can be configured in the Inputs menu on the left sidebar. They can be set to:

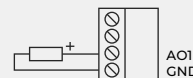
- **Voltage (0/2-10 V)**
- **Current (0/4-20 mA)**
- **Digital** (dry contact or open collector NPN transistor)
- **NTC 10k** (type-II or type-III)



It's recommended to set any unused inputs to disabled.

The outputs can be configured in the Outputs menu on the left sidebar. There are two analog outputs (AO) which can be configured as:

- **Voltage (0/2-10 V)**
- **Current (0/4-20 mA)**



There are also two digital outputs which can be used to power loads up to 24Vac.

No external resistors are needed to switch between voltage and current inputs/outputs.

I/O MAP

Inputs must be mapped with respect to how they're physically connected on the MA-VAV (e.g. Space Temperature Sensor on UI1 must be linked to UI1).

Outputs must be mapped according to which desired control algorithm(s) the user/application might need.

It's recommended to disable any IO that is not going to be used.

COMMUNICATION

This menu allows the user to modify the controller's default IP address, subnet mask, gateway, as well as any other configuration related to BACnet/Modbus protocols. All fields come with a default value that can be modified as desired. It's recommended to disable protocols that are not going to be used. It is necessary to restart the MA-VAV after modifying any communication setting. This can be done in the Commands tab or by simply power cycling the controller.

ENABLING THE CONTROLLER

There are 3 ways to enable the MA-VAV to operate:

- Internal schedules (BACnet or Modbus)
- Override switch on a digital input
- Writing a code other than 1 to the Operating mode BACnet object. Refer to table 5.1 in the manual for more details.

DATE AND TIME

- Can be adjusted in the Commands tab or via BACnet/Modbus network.



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