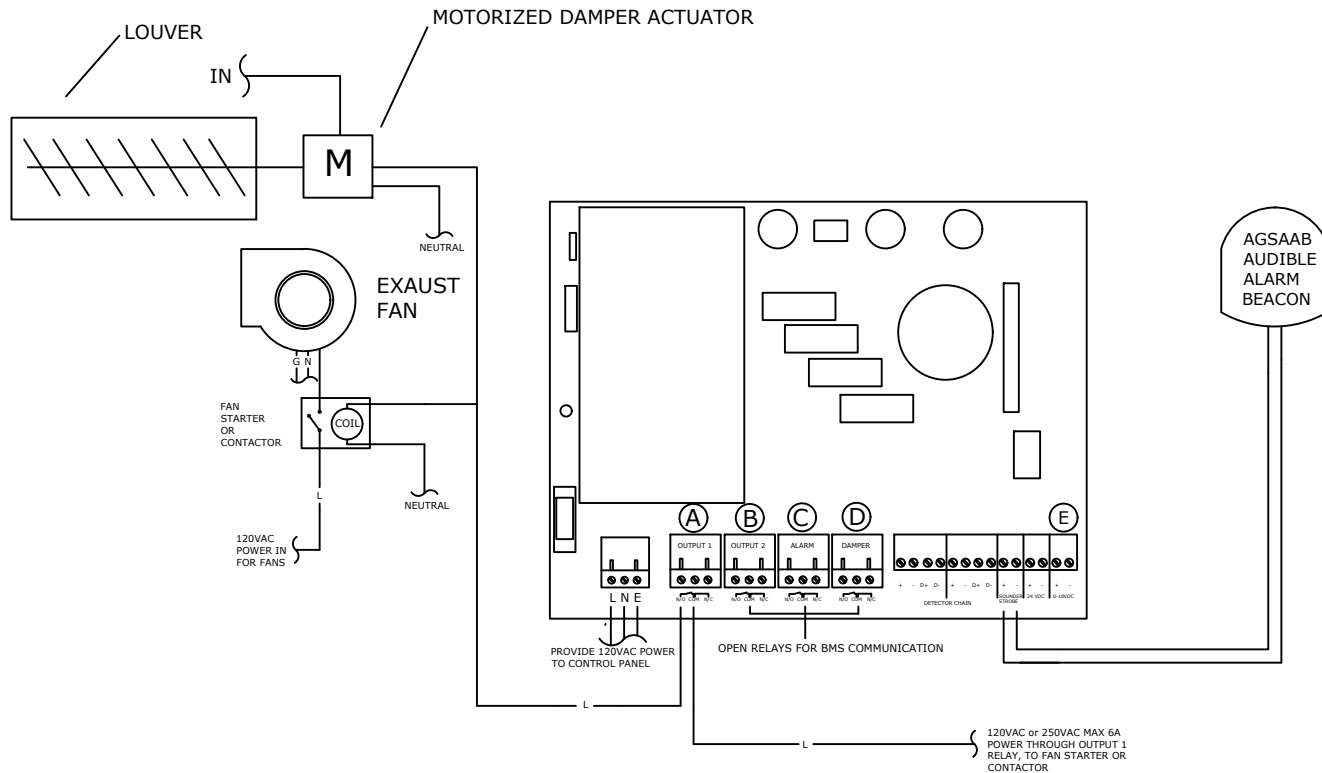


120V OR 240V TO FAN STARTER/CONTACTOR



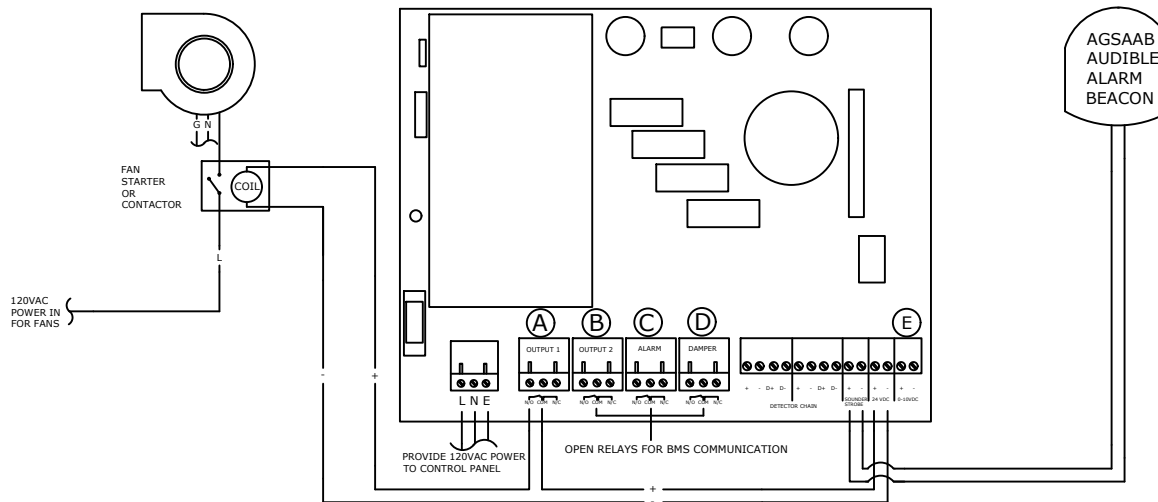
SEQUENCE OF OPERATION

1. WHEN GASES REMAIN BELOW 25 PPM CO AND/OR 0.7 PPM NO₂, OUTPUT 1 RELAY WILL REMAIN OPEN AND THE VENTILATION FAN WILL REMAIN OFF.
2. WHEN GASES ARE >25PPM CO AND/OR >0.7PPM NO₂, OUTPUT 1 RELAY WILL SWITCH CLOSE CAUSING 120/250VAC POWER TO ENERGIZE THE FAN STARTER / CONTACTOR COIL AND THE FAN WILL BE ACTIVATED.
3. ALARM CONDITION: WHEN GASES ARE >100PPM CO AND/OR >2PPM NO₂ FOR 5,10,15,20, OR 25 MINUTES: OUTPUT 1 RELAY WILL REMAIN CLOSED AND THE EXHAUST FAN WILL REMAIN ENERGIZED. THE 24VDC SOUNDER STROBE WILL ENERGIZE AUDIBLE ALARM BEACONS, AND THE PANELS INTERNAL BUZZER WILL SOUND.
4. MANUAL RESET: AFTER ALARM CONDITION THE PANEL'S VISUAL / AUDIBLE ALARMS WILL HAVE TO BE MANUALLY RESET.
5. DAMPER: WHEN OUTPUT 1 RELAY CLOSSES, THE DAMPER WILL BE ENERGIZED WITH THE FAN.

OUTPUTS AND RELAYS

- A. OUTPUT 1 RELAY:** SWITCHES AT 25PPM CO AND/OR 0.7PPM NO₂, REVERTS BACK TO ORIGINAL STATE WHEN LEVELS DROP BELOW 23PPM CO AND/OR 0.6PPM NO₂.
- B. OUTPUT 2 RELAY:** SWITCHES AT 100PPM CO AND/OR 2PPM NO₂, REVERTS BACK TO ORIGINAL STATE WHEN LEVELS DROP BELOW 97PPM AND/OR 1.9PPM NO₂.
- C. ALARM RELAY:** SWITCHES UNDER ALARM CONDITION (WHEN LEVELS REMAIN ABOVE 100PPM CO / 2PPM OF NO₂ FOR A TIME DELAY OF 5,10,15,20, OR 25 MINUTES. LATCHES UNTIL MANUAL RESET BUTTON IS PRESSED).
- D. DAMPER RELAY:** SWITCHES WITH OUTPUT 1 RELAY OR OUTPUT 2 RELAY.
- E. 0-10V OUTPUT:** SENDS 5V AT 25PPM OF CO AND/OR 0.7PPM OF NO₂; SENDS 10V AT 100PPM OF CO AND/OR 2PPM OF NO₂.

24VDC TO FAN STARTER/CONTACTOR



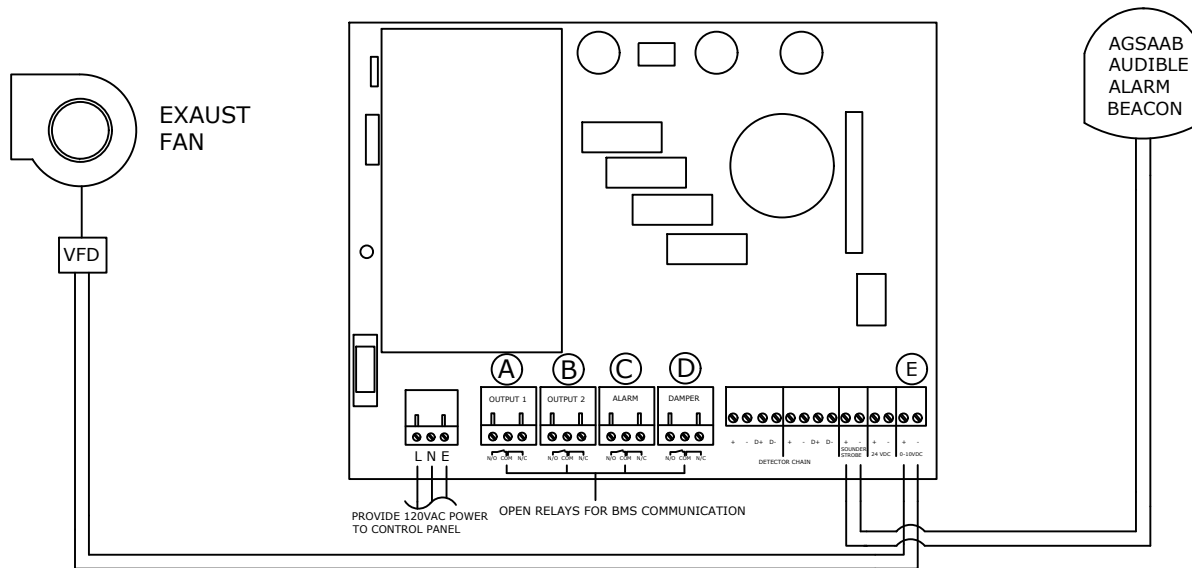
SEQUENCE OF OPERATION

1. WHEN GASES REMAIN BELOW 25 PPM CO AND/OR 0.7 PPM NO₂, OUTPUT 1 RELAY WILL REMAIN OPEN AND THE VENTILATION FAN WILL REMAIN OFF.
2. WHEN GASES ARE >25PPM CO AND/OR >0.7PPM NO₂, OUTPUT 1 RELAY WILL SWITCH CLOSE CAUSING 24VDC POWER TO ENERGIZE THE FAN STARTER / CONTACTOR COIL AND THE FAN WILL BE ACTIVATED.
3. ALARM CONDITION: WHEN GASES ARE >100PPM CO AND/OR >2PPM NO₂ FOR 5,10,15,20, OR 25 MINUTES: OUTPUT 1 RELAY WILL REMAIN CLOSED AND THE EXHAUST FAN WILL REMAIN ENERGIZED. THE 24VDC SOUNDER STROBE WILL ENERGIZE AUDIBLE ALARM BEACONS, AND THE PANELS INTERNAL BUZZER WILL SOUND.
4. MANUAL RESET: AFTER ALARM CONDITION THE PANEL'S VISUAL / AUDIBLE ALARMS WILL HAVE TO BE MANUALLY RESET.
5. DAMPER: WHEN OUTPUT 1 RELAY CLOSSES, THE DAMPER WILL BE ENERGIZED WITH THE FAN.

OUTPUTS AND RELAYS

- A. OUTPUT 1 RELAY:** SWITCHES AT 25PPM CO AND/OR 0.7PPM NO₂, REVERTS BACK TO ORIGINAL STATE WHEN LEVELS DROP BELOW 23PPM CO AND/OR 0.6PPM NO₂. 120/250VAC 6A MAX
- B. OUTPUT 2 RELAY:** SWITCHES AT 100PPM CO AND/OR 2PPM NO₂, REVERTS BACK TO ORIGINAL STATE WHEN LEVELS DROP BELOW 97PPM AND/OR 1.9PPM NO₂. 120/250VAC 6A MAX
- C. ALARM RELAY:** SWITCHES UNDER ALARM CONDITION (WHEN LEVELS REMAIN ABOVE 100PPM CO / 2PPM OF NO₂ FOR A TIME DELAY OF 5,10,15,20, OR 25 MINUTES. LATCHES UNTIL MANUAL RESET BUTTON IS PRESSED. 120/250VAC 6A MAX
- D. DAMPER RELAY:** SWITCHES WITH OUTPUT 1 RELAY OR OUTPUT 2 RELAY. 120/250VAC 6A MAX
- E. 0-10V OUTPUT:** SENDS 5V AT 25PPM OF CO AND/OR 0.7PPM OF NO₂; SENDS 10V AT 100PPM OF CO AND/OR 2PPM OF NO₂.

0-10V OUTPUT TO VFD



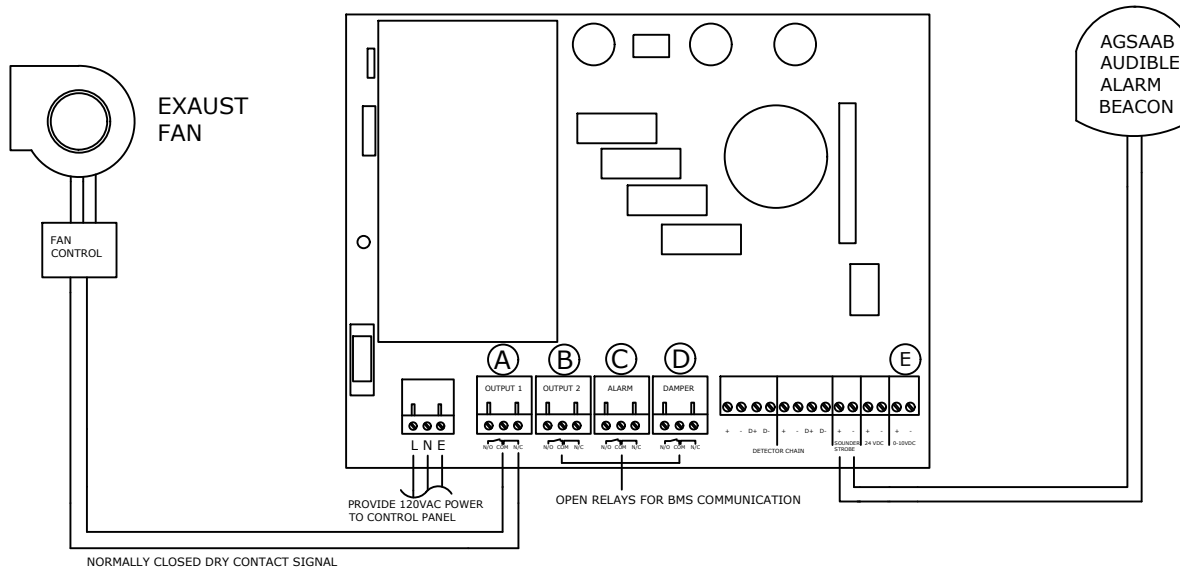
SEQUENCE OF OPERATION

1. WHEN GASES REMAIN BELOW 25 PPM CO AND/OR 0.7 PPM NO₂, 0-10V OUTPUT WILL SEND 0V OR 2V.
2. WHEN GASES ARE >25PPM CO AND/OR >0.7PPM NO₂, 0-10V OUTPUT WILL SEND 5V TO THE VFD. WHEN LEVELS DROP BACK BELOW 23PPM CO AND/OR 0.5PPM NO₂, THE 0-10V OUTPUT WILL REVERT BACK TO SENDING 0-2V.
3. WHEN GASES ARE >100PPM CO AND/OR >2PPM NO₂, 0-10V OUTPUT WILL SEND 10V. WHEN LEVELS REVERT BACK BELOW 97PPM CO AND/OR 1.8 PPM NO₂, THE 0-10V OUTPUT WILL REVERT BACK TO SENDING 5V.
4. WHEN GASES ARE >100PPM CO AND/OR >2PPM NO₂ FOR 5,10,15,20, OR 25 MINUTES: 0-10V OUTPUT WILL REMAIN SENDING 10V. THE 24VDC SOUNDER STROBE WILL ENERGIZE AUDIBLE ALARM BEACONS, AND THE PANELS INTERNAL BUZZER WILL SOUND.
5. AFTER ALARM CONDITION THE PANEL ALARMS WILL HAVE TO BE MANUALLY RESET.

OUTPUTS AND RELAYS

- A. OUTPUT 1 RELAY:** SWITCHES AT 25PPM CO AND/OR 0.7PPM NO₂, REVERTS BACK TO ORIGINAL STATE WHEN LEVELS DROP BELOW 23PPM CO AND/OR 0.6PPM NO₂. 120/250VAC 6A MAX
- B. OUTPUT 2 RELAY:** SWITCHES AT 100PPM CO AND/OR 2PPM NO₂, REVERTS BACK TO ORIGINAL STATE WHEN LEVELS DROP BELOW 97PPM AND/OR 1.9PPM NO₂. 120/250VAC 6A MAX
- C. ALARM RELAY:** SWITCHES UNDER ALARM CONDITION (WHEN LEVELS REMAIN ABOVE 100PPM CO / 2PPM OF NO₂ FOR A TIME DELAY OF 5,10,15,20, OR 25 MINUTES. LATCHES UNTIL MANUAL RESET BUTTON IS PRESSED. 120/250VAC 6A MAX
- D. DAMPER RELAY:** SWITCHES WITH OUTPUT 1 RELAY OR OUTPUT 2 RELAY. 120/250VAC 6A MAX
- E. 0-10V OUTPUT:** SENDS 5V AT 25PPM OF CO AND/OR 0.7PPM OF NO₂; SENDS 10V AT 100PPM OF CO AND/OR 2PPM OF NO₂.

DRY CONTACT TO FAN



SEQUENCE OF OPERATION

1. WHEN GASES REMAIN BELOW 25 PPM CO AND/OR 0.7 PPM NO₂, OUTPUT 1 RELAY WILL REMAIN CLOSED AND THE VENTILATION FAN WILL REMAIN OFF.
2. WHEN GASES ARE >25PPM CO AND/OR >0.7PPM NO₂, OUTPUT 1 RELAY WILL SWITCH OPEN AND SEND A SIGNAL TO THE FAN CONTROLLER, ACTIVATING THE EXHAUST FAN.
3. WHEN GASES ARE >100PPM CO AND/OR >2PPM NO₂ FOR 5,10,15,20, OR 25 MINUTES: OUTPUT 1 RELAY WILL REMAIN OPEN AND THE EXHAUST FAN WILL REMAIN ENERGIZED. THE 24VDC SOUNDER STROBE WILL ENERGIZE AUDIBLE ALARM BEACONS, AND THE PANELS INTERNAL BUZZER WILL SOUND.
4. AFTER ALARM CONDITION THE PANEL ALARMS WILL HAVE TO BE MANUALLY RESET.

OUTPUTS AND RELAYS

- A. OUTPUT 1 RELAY:** SWITCHES AT 25PPM CO AND/OR 0.7PPM NO₂, REVERTS BACK TO ORIGINAL STATE WHEN LEVELS DROP BELOW 23PPM CO AND/OR 0.6PPM NO₂. 120/250VAC 6A MAX
- B. OUTPUT 2 RELAY:** SWITCHES AT 100PPM CO AND/OR 2PPM NO₂, REVERTS BACK TO ORIGINAL STATE WHEN LEVELS DROP BELOW 97PPM AND/OR 1.9PPM NO₂. 120/250VAC 6A MAX
- C. ALARM RELAY:** SWITCHES UNDER ALARM CONDITION (WHEN LEVELS REMAIN ABOVE 100PPM CO / 2PPM OF NO₂ FOR A TIME DELAY OF 5,10,15,20, OR 25 MINUTES. LATCHES UNTIL MANUAL RESET BUTTON IS PRESSED. 120/250VAC 6A MAX
- D. DAMPER RELAY:** SWITCHES WITH OUTPUT 1 RELAY OR OUTPUT 2 RELAY. 120/250VAC 6A MAX
- E. 0-10V OUTPUT:** SENDS 5V AT 25PPM OF CO AND/OR 0.7PPM OF NO₂; SENDS 10V AT 100PPM OF CO AND/OR 2PPM OF NO₂.