

CO / CO₂ / NO₂ / OR VOC MONITOR VEHICLE EXHAUST GAS DETECTOR

MODEL GVVU-6
MODEL GVVU-12
MODEL GVVU-18

TYPICAL INSTALLATIONS:

- **Parking Garages**
Apartments
Condominiums
Office Buildings
- **Bus Garages**
- **Fire Stations**
- **Warehouses**
- **Car Dealers**
- **Welding Shops**
- **Vehicle Maintenance & Storage**
Highway Departments
Utilities
Public Works
- **Police Stations**
- **Post Offices**
- **Ice Arenas**
- **Tunnels**

GENERAL DESCRIPTION:

The GVVU-6,12 and 18 ventilation control systems combine toxic gas-based and time-based fan control modes in all solid-state, low maintenance, cost effective product.

The GVVU-6 series controller can monitor up to six (6) GVVU-CO sensors; six (6) GVVU-CO₂ sensors, six (6) GVVU-NO₂ sensors, six (6) GVVU-VOC sensors; or any combination of these. The GVVU-6 Controller consists of the power supply, solid state clocks, time delays, fan control, terminal strips, and power on indicator.

The GVVU-12 series controller can monitor up to twelve (12) GVVU-CO sensors; twelve (12) GVVU-CO₂ sensors, twelve (12) GVVU-NO₂ sensors, twelve (12) GVVU-VOC sensors; or any combination of these. The GVVU-12 Controller consists of the power supply, solid state clocks, time delays, fan control, terminal strips, and power on indicator.

The GVVU-18 series controller can monitor up to eighteen (18) GVVU-CO sensors; eighteen (18) GVVU-CO₂ sensors, eighteen (18) GVVU-NO₂ sensors, eighteen (18) GVVU-VOC sensors; or any combination of these. The GVVU-18 Controller consists of the power supply, solid state clocks, time delays, fan control, terminal strips, and power on indicator.

The GVVU-CO sensor is microprocessor based and is temperature and humidity compensated for stability. The GVVU-CO sensor range is 0 to 250 ppm. The transducer utilizes a tin oxide sensing element that is cleaned and sampled by the microprocessor. The GVVU-CO indicates its status via a two color LED (light emitting diode). When the LED is flashing green, operation is normal and not in alarm. When the LED is flashing red, the unit is in alarm (high CO); a continuous red or green indicates sensor failure; and LED extinguished indicates power failure.

See separate specification data sheet for information regarding GVVU-CO₂ carbon dioxide sensors, GVVU-NO₂ nitrogen dioxide sensor and GVVU-VOC smoke/air quality sensor. See last page for ordering information.



Model GVVU-6

FEATURES

- Fully electronic for long life
- User adjustable alarm setting
- Minimum fan run time
- User adjustable 2nd stage activation
- Trouble Free Operation
- Visual indication of high gas concentration
- Operating range meets OSHA std. 1910.1000

VENTILATION CONTROL

Should a high gas concentration occur (above user-adjustable alarm level), an alarm signal from any sensor unit starts a 30 second delay. Should the concentration persist through the delay period, the “alarm” clock is activated. The “on” time of this clock, is user-adjustable in discrete settings from 5 to 55 minutes. Upon activation of the “alarm” clock, the “fan-on” relay energizes and remains energized until the “alarm” clock times out. Should the high concentration still be above the alarm level, the “fan-on” relay will remain ON and the “alarm” relay will energize. This condition is maintained until the high concentration drops.

OPTIONS:

- Audible alarm w/push button audio silence
- Fan on indicator
- Fan override switch
- Sensor status indicators per sensor
- Second zone of fan control
- 7-day time clock

SPECIFICATIONS

Input Power: 120VAC, 60Hz, 1 A (fused)

Minimum Fan On Time: Adjustable in 5 minute intervals

Dimensions:

GVU-6 20”H x 12”W x 6” D
(508 mm x 305 mm x 152.4 mm)

GVU-12 20”H x 20”W x 6” D
(508 mm x 508 mm x 152.4 mm)

GVU-18 20”H x 24”W x 6” D
(508 mm x 609 mm x 152.4 mm)

Relay Contacts: 24 VAC, 2A resistive, 1.5 inductive

Finish: Control Unit: Gray enamel

Enclosure: Nema 1 standard, others available

GVU SERIES PRODUCTS:

CONTROLLERS –

- GVU-1 Control unit for use with one sensor
GVU-3 Control unit for use with one to three remote sensors
GVU-6 Control unit for use with one to six remote sensors
GVU-12 Control unit for use with one to twelve remote sensors
GVU-18 Control unit for use with one to eighteen remote sensors

REMOTE SENSORS –

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|---------------------|-------------------------------|---------------------|---------------------------------|
| GVU-CO | Remote carbon monoxide sensor | GVU-NO ₂ | Remote nitrogen dioxide sensor |
| GVU-CO ₂ | Remote carbon dioxide sensor | GVU-VOC | Remote smoke/air quality sensor |

ANNUAL CALIBRATION CHECK IS RECOMMENDED