

# HGVS-1000 Hydrogen Gas Ventilation System

Model # HGVS-1000



HGVS-1000

## Features

- Compliance with IEEE Std 450
- Compliance with National Fire Protection Agency (NFPA) Article 64
- Compliance with Uniform Building Code (UBC) Section 6400
- Automatic Operation and Continuous 24/7 Monitoring
- High Sensitivity and Stability
- Long Life-Span for Reliable Monitoring
- Inexpensive protection for equipment and personnel
- Two-Year Warranty

## Product Overview

The HGVS-1000 Hydrogen Gas Ventilation System is a forced ventilation fan system used in battery charging rooms and other areas where hydrogen may be present. This is to be used in conjunction with the HGD-2000 and HGD-3000 Hydrogen Gas Detectors. The hydrogen gas detector is mounted in the highest part of the room and the HGVS-1000 vent fan is mounted through the outside wall.

The system has four fans factory-rated at 850 CFM each. This conforms to N+1 for 2550 CFM. The vent is equipped with a "Positive Airflow Shut Off" feature. These doors can be closed by an external electric command, and will stop any airflow from passing through the fans. The HGVS-1000 is primarily set up to exhaust air but can be reversed to source forced air into a room.

## Optional Features

- Fan Supply Power: 24vdc, 48vdc, or 115 VAC
- Fan can be provided as an exhaust fan (standard) or supply fan (optional)
- Fan can be provided for -48 VDC A&B isolated redundant power service
- Fan can be provided with an optional firefighter shut down lever
- Fan can be provided with an optional emergency horn & flashing light

## Applications

- Utilities and Power Plants
- UPS Power Systems
- Fuel Cell Test Stations
- Nuclear Waste Reforming
- Hydrogen Refueling Stations
- Fire Department
- Battery Suppliers
- Battery Charging Rooms
- Motive Power
- Golf Cart

## Technical Specifications

<b>Connections:</b>	Input: Positive shutoff control, N.O. Dry Contacts Output: 1% Fan Running, 2% Alarm, N.O. Dry Contacts
<b>Mounting:</b>	(4) 38 mm (1.5 in) Standard 607 mm (24 in)
<b>Positive Shut-Off:</b>	Dry contact activated, manually reset
<b>Dimensions:</b>	24 - 48 VDC or 115 VAC as ordered, ground stud
<b>Weight:</b>	Fan: 23 kg (51 lbs) Rain Shield & Damper: 10.9 kg (24 lbs)
<b>Safety Standard:</b>	(4) fans rated at 850 CFM Total 3400 CFM N+1 (3) Fans at 850 CFM Total 2550 CFM for 777 sq. m (2550 sq. ft)
<b>Options:</b>	Mounting wing placement, room exhaust source, small or large rain shield, N.O. to N.C., custom features on request

## Ordering Information

No.	Model #	Description
1	HGVS-1000	Hydrogen Gas Ventilation System (used in conjunction with HGD-2000 and HGD-3000)