

# VENTCON-H2 BR

HYDROGEN MONITOR/  
CONTROLLER



## Features :

- Fast acting High performance H2 Controller
- Interfaces to 4 to 20 mA output or 0 to 10V
- Hydrogen detectors from Acorn (H2SENSE CC2410, H2SENSE 2405 & H2SENSE CC4220Tx)
- Wall mounting enclosure IP65 enclosure
- Membrane Keyboard & WP glands
- Two Control relays
- Software settable set point
- Built-in Timer with settable ON/OFF time for Fan control
- Buzzer and LED warnings RS485 Modbus Protocol - inbuilt Hydrogen detectors from Acorn (H2SENSE CC2410, H2SENSE CC2405 & H2SENSE CC4220Tx)

## Overview:

This product is developed to detect presence of % HYDROGEN (H2) in the ambient air.

When Hydrogen is mixed with ambient air it can form an explosive mixture.

If this is not controlled below LEL (Lower Explosive Limit which is 4% of Hydrogen balance Air), explosion can take place. Such situation could arise in areas where hydrogen is either used or gets produced due to chemical reaction or electrolysis. Typically in Battery charging rooms, while charging Lead/acid Batteries, Hydrogen emission takes place during charging. This can lead to generation of explosive atmosphere in presence of ambient oxygen. Hydrogen level therefore has to be maintained below LEL which is done by ventilating area around the Hydrogen generating source - i.e. Battery rooms.

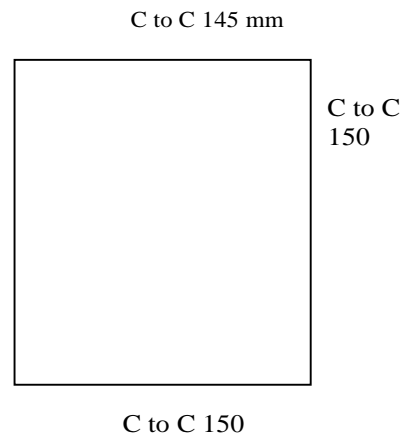
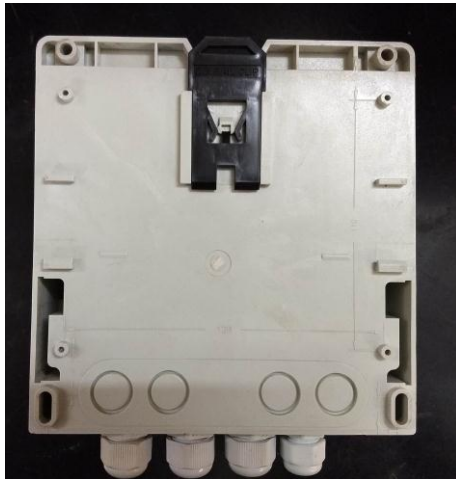
VENTCON-H2 Controller is designed to monitor H2 level in atmospheric Air with a control relay to turn ON the ventilation systems (Fan or Damper), thereby restricting % H2 build up in the atmospheric air. Thus VENTCON-H2 is an important safety device for Battery Charging rooms.

A Second control relay, whose operating set point, is typically set at a little higher level than the control set point. This is provided to give remote warning, should the % H2 level does not get restricted and continues to rise beyond first control set point, may be due to inadequate ventilation or some other fault. Additional Timer based Fan Control with H2 over-ride option is also available on Relay-1. Operating timer is programmable by user.

## **Specifications:**

Range of H2 concentration	Range : 0 to 4.00 % of H2 ,Balance Air
Accuracy	+/-1% of input range (does not include Sensor error)
Display	2 LINE X16 Character A/N Back lit
Sample Method	By Catalytic Conv. Type Hydrogen sensor
Operating Temp. Range	-10~55°C, 96% RH
Storage Range	-20~70°C, 96% RH
degree of Protection	IP65
Display Update Period	1 second
Response Time	<10 sec
Relay 1 & 2 Contact Rating	230VAC, max 5A(Non-Inductive), Contacts: SPDT
Alarm Level & Relay / LED's	2 LEDs RED : < Alarm1 RED : > Alarm2 Alrm1 ON/OFF & Alarm2 ON & OFF levels are user adjustable
Timer Based Relay 1 On/Off setting	OFF time settable from 0 to 9999 minutes / ON time settable 0 to 99 minutes. Green & Yellow (ON) when Timer turns Relay 1 ON
Buzzer Alarm	Available with Mute facility
Power Supply	230V AC +/- 10% 50Hz
Dimension	Please refer to the Diagram

## Mounting Holes



### **Manufactured**

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### **Marketed By :**

Specifications subject to change due to continuous development please confirm before ordering.