

The V-725, Vibcon senses shocks of the certain magnitude bound of only earthquake and shuts down whole system of any equipments by automatically dropping out the power circuit to prevent from any fire damages.

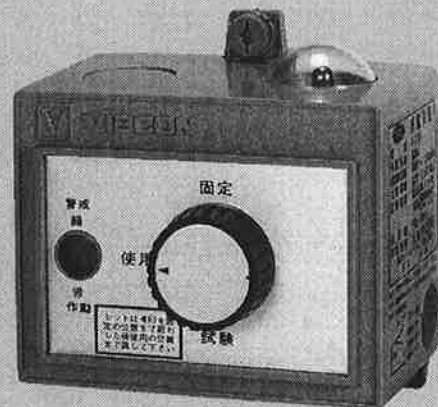
The V-725 construction is that a sensing element is attracted and attached on a magnet.

When an earthquake occurs, the sensing element drops by the shock force, operating a micro-switch to switch off.

**Please read the "Terms and Conditions" from the following URL before ordering or use:**  
<http://www.yamatake.com/products/bi/order.html>

- It is approved by Tokyo City Fire Defence Agency exam.
- It will not respond to the higher frequency vibration than that of earthquak's (the cycle range of earthquake wave is 0.1sec - 1.0sec).
- Easy horizontal mounting with the leveling ball.
- Can test the device by positioning the knob on "TRIAL".
- When in operation, indicator will turn from green to red.
- Switch remains off when positioned at "RESET".

## V-725



## VIBCON EARTHQUAKE DEVICE

# SPECIFICATIONS

Model Name .....	Vibcon	Terminal .....	2P-M3.5
Model Number .....	V-725	Installation .....	Wall mounting
Function .....	Magnetic	Structure .....	Dust-proof
Operating range .....	100-170 gal	Case material .....	Plastic
Voltage .....	125/250 VAC	Dimensions .....	108(W) x 107(H) x 75(D) in mm
Full load .....	15A (resistive load)	Mass .....	0.35 kg
	6A (motor load)	Case color .....	Ivory
Switch action .....	SPST		

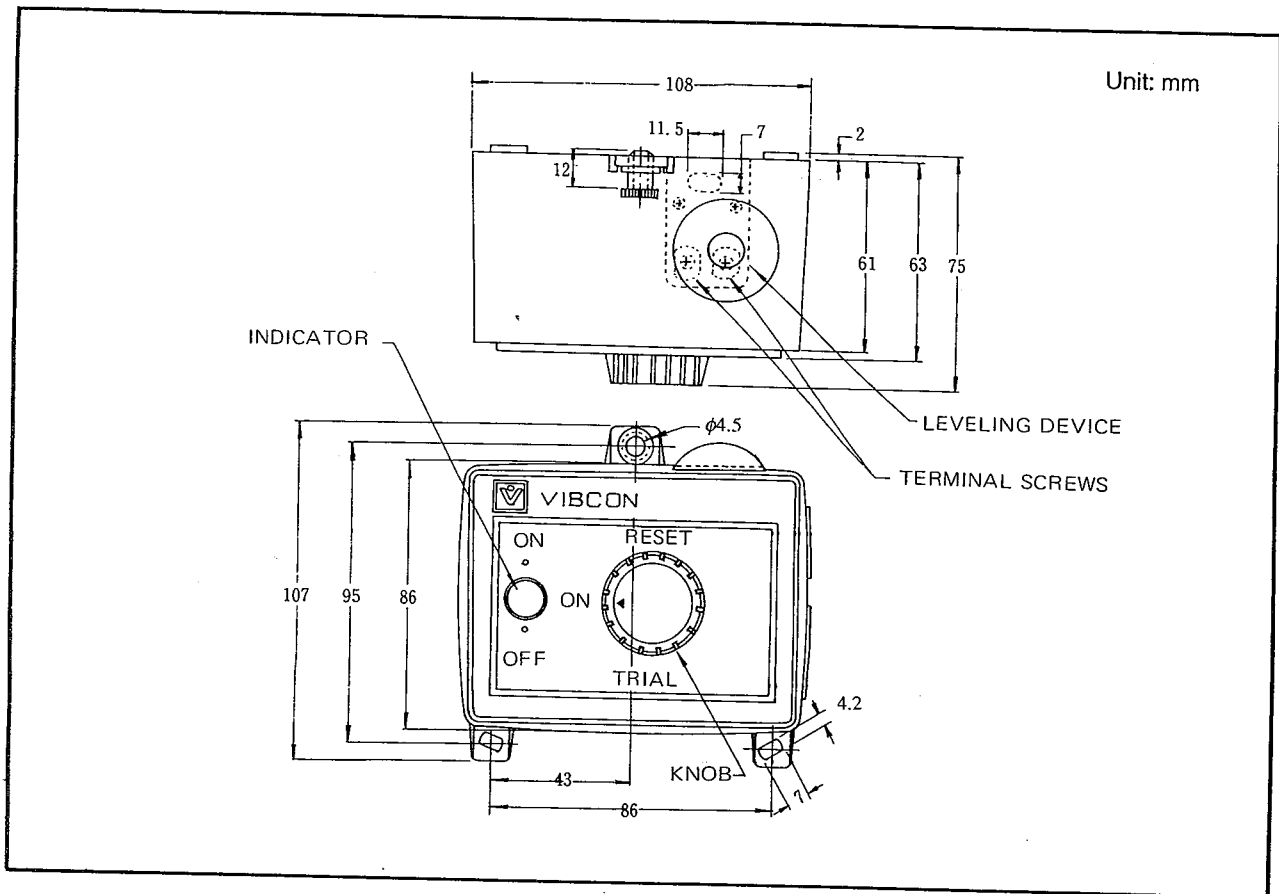


FIG. 1 DIMENSION

# INSTALLATION

## OUTER VIEW

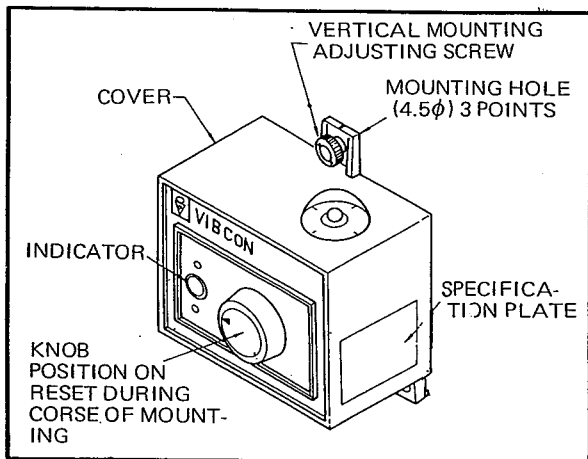


FIG. 2 OUTER VIEW

## INSTALLATION METHOD

Mount on the wall temporary. Then adjust the level of the device with the vertical mounting adjusting screw so that the ball in the leveling indicator will come to stay at the right on the middle of the circle. Then screw tight. This means the device has been mounted horizontal.

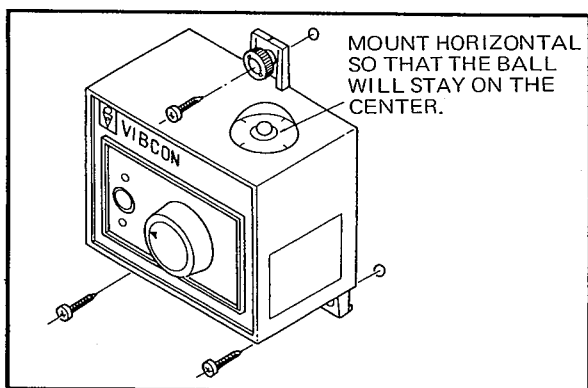


FIG. 3 PROPER MOUNTING

## PROPER INSTALLATION

1. Do not install on an inclined place. Keep at perpendicular level when installation and preferably 1.5m above the ground.
2. Avoid the places where artificial shocks often occur.
3. Install on a solid base. Avoid insecure places.
4. Avoid installing in a dark place where regular inspection is hardly possible.
5. Avoid installing on a place where:
  - 1) it is humid
  - 2) it has high ambient temperature. (preferably less than 50°C)
  - 3) corrosive or inflammable gas occurs.
  - 4) it has magnetic influences.
  - 5) it has strong carbonated atmosphere.

## WIRING

Removing the terminal cover at the bottom of the case cover, you will find terminal screws. All wiring must comply with local codes, regulations, and ordinances. Wire through the wiring hole of the cover. For large size wire, cut off the edge of the cover as shown on Fig. 4.

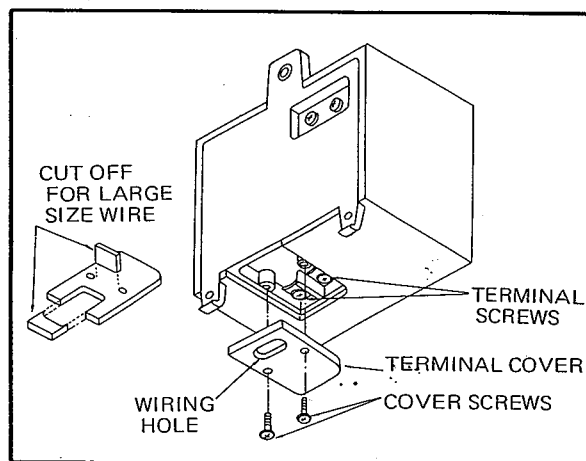


FIG. 4 WIRING

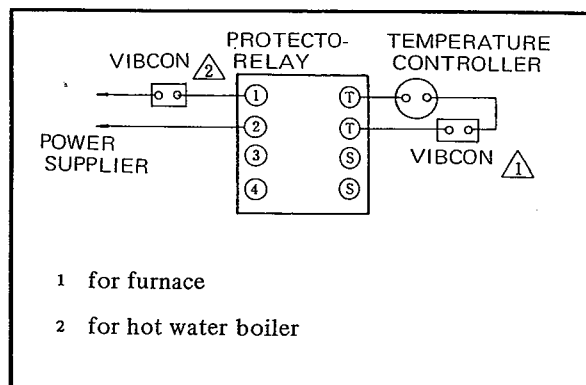


FIG. 5 HOOK-UP FOR PROTECTORELAY

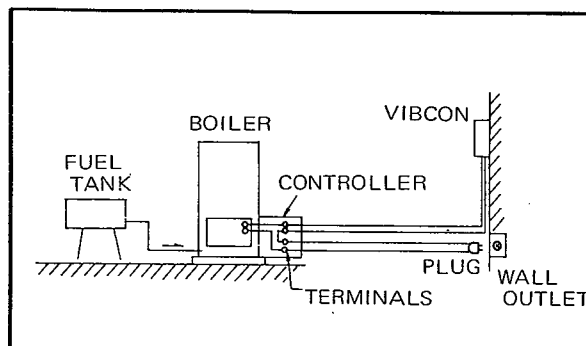


FIG. 6 TYPICAL APPLICATION

## APPLICATION EXAMPLES

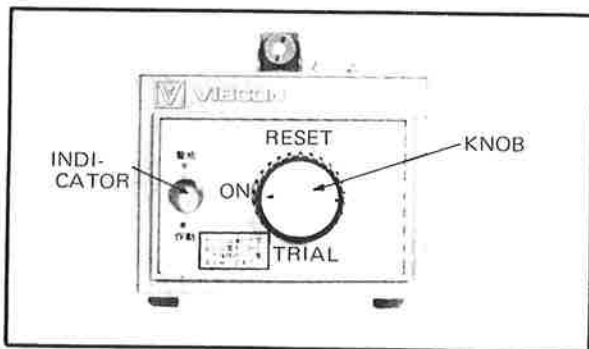
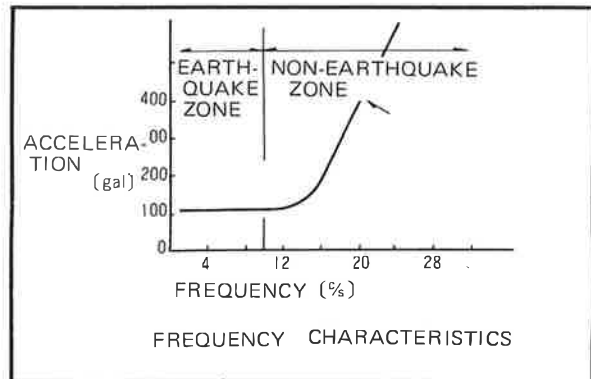
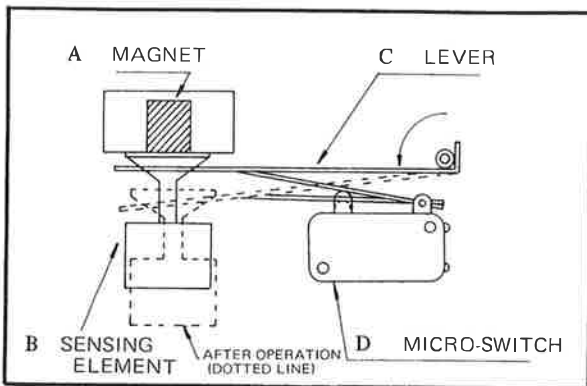
With the V-725, there are several applications to shut down a burner:

1. By cutting off power.
2. By shutting off fuel valve.
3. By cutting off safety circuit of the thermostat or limit
4. By cutting off the operation circuit of the heating equipment.
5. When Honeywell protectorelay is used, connect to T-T for the furnace application and connect to 1 – power supply for the hot water boiler application. (see Fig. 5)

## OPERATION

Normally sensing element B is stuck on magnet A. When an earthquake occurs and shock force of higher

than certain level is applied to the sensing element, it operates an micro-switch D



**Reset:** To reset the switch after operation (The switch remains off at this position-green indication).

**On (normal position):**

Knob must be set to "ON" for normal position. (The switch on with green indication)

**Trial:** To check the operation. (The switch goes off with red indication)

**Resetting procedure:**

Slowly turn the knob on "RESET" showing green indication. Then turn it back to "ON".

Repeat the procedure if the indicator switches back to red again.

### Note

When transporting this unit, set the knob to "RESET".

**azbil**

**Yamatake Corporation**  
Advanced Automation Company

1-12-2 Kawana, Fujisawa  
Kanagawa 251-8522 Japan

URL: <http://www.azbil.com>

Specifications are subject to change without notice. (08)