

# FF - 400

## Fix & Forget

*Protect your Life and Property*

## Gas Detection System



- Very low maintenance
- High-sensitivity Sensor
- Alarm at fraction of LEL / TLV
- Very long life 5 to 10 years
- Scalable Model 1 to 10 channels
- Water proof, Dust-tight IP66, FLP enclosures
- Aesthetical Looks
- No false alarm

*Gas Detection - The most reliable way*





# FF- 400 - Fix & Forget

This is a unique gas detection system requiring no prior knowledge or experience. It is very easy to install & use. It does not require any calibration at the time of installation and requires only once a year recalibration. This is aptly named as

Fix & Forget. This system has proven itself by its history of successful operation all over India in diverse operating environments for over 10 years. System design ensures minimum interferences from electric noise, temperature, humidity and pressure.



## Monitor/ Alarm Unit

|                          |   |
|--------------------------|---|
| <b>Capacity</b>          | Up to 10 channels   |
| <b>Power Supply</b>      | Universal AC input 100-250 AC, 50/60 Hz                               |
| <b>Power Consumption</b> | 1.5 W/channel-normal operation  |
| <b>Output</b>            | Driver for Auto shut-off valve, Suction Pump, Annunciation Panel etc. |
| <b>Enclosure</b>         | ABS, IP65 weather-proof   |
| <b>Indication</b>        | Alarm-1 Red LED/Channel<br>Pilot-1 Green LED                          |
| <b>Warm up time</b>      | <5 minutes  |
| <b>Response Time</b>     | Very quick (depends upon target gas)                                  |
| <b>Size (W x H x D)</b>  | 250x250x150 (mm)  |
| <b>Alarm Type</b>        | Auto-resetting  |
| <b>Alarm level</b>       | Factory preset - PPM, fraction of LEL/TLV                             |
| <b>Operating Temp.</b>   | -10°C to 50°C   |

## Detector Unit

A field replaceable unit complete with Cos Sensor, Terminal/Junction Box and Gland etc. available in following application based configurations:

- A** i) **Diffusion:** Suitable for open air monitoring. Gas flows under natural convection  
 ii) **Suction:** Suitable for inaccessible or adverse areas where sensors can't be mounted at point of leak. This unit can be mounted upto 10 mtrs. away. Gas sample is sucked by a micro-pump through VA" tube
- B** i) 2-wire DU can be placed upto 50 meters away  
 ii) 3-wire DU can be placed upto 300 meters away
- C** i) WP enclosure suitable for open air non hazardous areas. ABS enclosure with IP66 protection  
 ii) FLP enclosure Suitable for classified hazardous areas. LM-6 alloy enclosure certified for IIA/IIB/II C gas groups. IP55 protection

## Sensor

Single most important and expensive component. Total system reliability and effectiveness depends upon this. It is important to use right sensor based on application

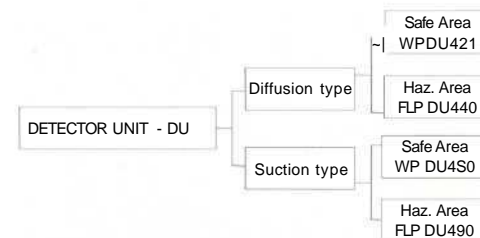
1. All sensors of high sensitivity (semiconductor/electrochemical)
2. All sensors are sourced from ISO 9001 certified manufacturers of international repute
3. All sensors are carefully selected for the target gas and do not respond to other interfering gases
4. Very low warm up and response times
5. Expected life 2 to 10 years (depending upon sensor type)
6. All sensors are housed in appropriate housing and assembled for enhanced safety and environment protection

## Optional Accessories

1. HPS100 - High Pitch Sounder. Open area type 110 dB output
2. HF100 - Indoor Hooter Flasher, 85 dB, bright flasher for indoor use
3. HF200 - Outdoor Hooter Flasher, 115 dB, H brightness flasher for outdoor use
4. Splash Guard - Sensor accessory to protect it from liquid splashes, dust and high speed winds
5. Battery Back-up - SMF / NiMH batteries and automatic charger provide upto 30 mins of normal operation
6. Auto shut off valve - Solenoid valves for upto 1.5" pipe size
7. Relays - Any number of relays of 1 c/o 1 Amp. rating can be provided
8. Stand for floor mounting
9. Canopy for rain protection

## Applications

LPG/LNG users, Gas Banks, Hotels, Flight Kitchens, Industrial Canteens, Godowns, Shopping malls, Laboratories, SSI Units, Textile Industries etc.



| DU440  | PU421                   | HPS100                  | HF200                              |
|--|-------------------------|-------------------------|------------------------------------|
|  |                         |                         |                                    |
| Size<br>190x154x95mm                                 | Size<br>125x83x55 mm    | Size<br>21 Ox 120x80 mm | Size<br>195x149x60 mm              |
| Wt. < 1.5 Kg.<br>FLP/WPIP55<br>CCE and BIS certified | Wt. < 500gms.<br>WPIP65 | Wt. < 500 gms<br>IP65   | Wt. < 500 gms<br>115dB<br>5 W lamp |

Specifications subject to change without notice



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