



# Y.F ENTERPRISES ENGINEERING AND MAINTENANCE SERVICES



## Y.F ENTERPRISES ENGINEERING AND MAINTENANCE SERVICES



PLANT



PROCESS



SECURITY



## ABOUT US

- We are taking this opportunity to introduce you the Y.F ENTERPRISES ENGINEERING AND MAINTENANCE SERVICES - the company with personnel of over 6 years of experience in Hydrocarbon Detection System (HCD). We have head office in Kolkata
- Company specialized in service and maintenance of **Point Type Detectors (PTD)**, **Open Path Detectors (OPD)** and **Portable Gas Detector**.
- There is a professional team of engineers and gas detection technology professionals working within our company.

### MISSION

To evolve a leading process solution company, by giving impeccable product quality, end-to-end solution, solution key and services in all fields of process automation with a view to achieving the highest level of customer expectation

### VISION

"Our vision is to avoid fire accident and make our environment safe to work, safe to live" and to provide best services to our customer



### WORK DONE OVER



20+ LOCATION

### WE HAVE



EXPERIENCE  
AND



### 16+ CUSTOMER SATISFIED

## SERVICES OFFERED

- We are experienced in hydrocarbon detection system & offer services such as repairing, maintaining, assembling, dis-mantling, and calibration etc. of HCD's.
- We supply products like PTD, OPD, Explosive meter, LPI, Hooter etc., which are approved by PESO, ISO certified, FLP, and ATEX.
- We also do PLC programming / software integration of Siemens & delta PLC
- We provide services and maintenance of UPS

And we provide fire safety products too.

## AUDIO & VISUAL ALARM UNIT



SALE OF BALIGA ITEMS



SALE AND SERVICE OF SMART-TECH



### HOOTER CUM FLASHER AND PUSH BUTTON UNIT

- IP RATING: IP66, IP65
- POWER SUPPLY: 240AC & 24DC
- SOUND O/P IN dB: 106dB
- HAZARDOUS AREA RATING: Ex db IIC T6 Gb  
Ex tb IIIC T85°C
- CERTIFICATIONS/ APPROVALS: PESO,  
ATEX, FLP & SIL
- TYPE OF BODY: ALUMINIUM

### HOOTER CUM FLASHER UNIT WITH PUSH BUTTON

- IP RATING: IP66
- POWER SUPPLY: 240AC & 24DC
- SOUND O/P IN dB: 85dB
- HAZARDOUS AREA RATING: Ex db IIA, IIB,  
IIC T6 T85°C
- CERTIFICATIONS/ APPROVALS: FLP
- TYPE OF BODY: CAST ALUMINIUM ALLOY

## CONTROL ROOM PANEL REQUIREMENT / ITEM'S:



PLC



RELAYS



PANEL HOOTER



HCD PANEL



SMPS



JUNCTION BOX &  
INTERNAL ACCESSORIES



ANNUNCIATOR WINDOW



RS485 CONVERTOR

## POINT TYPE GAS DETECTOR (PTD) AND ACCESSORIES



### SALE AND SERVICE OF SENSITRON PTD / SPECIFICATION

#### SMART-S



- Sensing element: Pallister sensors for flammable gas, Electrochemical cells for toxic gas, IR sensors for flammable and CO<sub>2</sub>
- Measuring range: % LEL for flammable, ppm for toxic, % Vol. for O<sub>2</sub> and CO<sub>2</sub>, %vol for CH<sub>4</sub>
- Power supply: 12-24Vdc -20% +15% Consumption at 24 Vdc  
4mA min. 20 mA max (IR+ Pell.)
- Visual indications: 7 LED indications: Power (green), Fault (yellow). Al. 1, A12, A1.3 (red). S1 (green)
- Display characteristics: (sensor1/RS485 indication) and S2 (green)  
(sensor 2) Dot matrix 8 alphanumeric digits, 4.5 mm high, 2,5 mm width
- Proportional analog output: 2 x 4-20 mA (300 max: 2000 typical)
- Proportional Serial Output: 1 x RS485 and proprietary protocol for addressable gas control panel. 2 addresses are to be reserved, one for each sensor.
- Relay outputs: 3 relays with tension free changeover contact 24V-1A
- Resolution: Warm-up time
- Stabilization time: 0,5% Full scale, 2 minutes, 60 minutes for calibration



### SALE AND SERVICE OF AMBETRONICS PTD / SPECIFICATION

#### GT-2511-FLP

- Detection method: Catalytic bead, Infrared (IR)
- Gas detected: Propane (C<sub>3</sub>H<sub>8</sub>), Methane (CH<sub>4</sub>)

#### **Electrical:**

- Supply voltage: 18 to 36 VDC typically 24VDC
- Power consumption: less than 3.6 watts
- Cable: 3 Wires
- Supply current: 150mA at 24VDC

#### **Output signal:**

- Standard: 4-20mA Current Output with configurable range selection with 470-ohm load driving capacity



## OTHER POINT TYPE DETECTOR'S & THEIR SPARE

**Honeywell**

**HONEYWELL :**



**Dräger**

**DRAEGER :**



**ESP SAEFTY INC**

**ESP SAEFTY INC :**



**OTHERS :**



**Gastron**



**Crowcon**



**Riken Keiki**



**Crimscsent**

## OPEN PATH GAS DETECTOR (OPD) AND ACCESSORIES



### SALE AND SERVICE OF DRAEGER (OPD) / SPECIFICATION



#### PULSAR-7000

- Housing Electro-polished ANSI type 316 marine grade stainless steel
- Mounting/brackets Electro-polished ANSI type 316 marine grade stainless steel
- Cover Polished ANSI type 316 marine grade stainless steel
- Lens Treated optical glass
- Integral Cable Armored, flame retardant, halogen free, MUD resistant
- Operating distance 4 to 60m, 30 to 120m or 100 to 200m Transmitter to Receiver.

#### ELECTRICAL:

- Connections Transmitter: three wires (3rd wire optional for Rx-Tx digital link).
- Receiver: four wires (4th wire optional for digital communications and Rx-Tx link).
- Power Supply Voltage: 18-30VDC (24VDC nominal)
- Current:  $\leq 0.95$  A typical @ 24 volts DC. inrush current: 1.5A



#### OUTPUT SIGNAL:

- Outputs Fully linearized 4-20 mA gas signal



### QUASAR 900

- Housing Electro-polished ANSI type 316L marine grade stainless steel
- Mounting/brackets Electro-polished ANSI type 316L marine grade stainless steel
- Cover Polished ANSI type 316L marine grade stainless steel
- Lens Treated optical glass
- Integral Cable Armored, flame retardant, halogen free, MUD resistant
- Operating distance 7 to 20m, 15 to 40m, 35 to 100m & 80 to 200m Transmitter to Receiver.

#### ELECTRICAL:

- Connections Transmitter: Three wires.
- Receiver: Three wires
- Power Supply Voltage: 18-30VDC (24VDC nominal)
- Current:  $\leq 0.95$  A typical @ 24 volts DC. inrush current: 1.5A



#### OUTPUT SIGNAL:

- Outputs Fully linearized 4-20 mA gas signal
- Visual Status Indicator 3 color LED: Green – Power on, Yellow – Fault, Red – Alarm



## SALE AND SERVICE OF ESP SAFETY INC (OPD) / SPECIFICATION



### TGAES

- Housing Electro-polished ANSI type 316 marine grade stainless steel
- Mounting/brackets Electro-polished ANSI type 316 marine grade stainless steel
- Cover Polished ANSI type 316 marine grade stainless steel
- Lens Treated optical glass
- Integral Cable Armored, flame retardant, halogen free, MUD resistant
- Operating distance 5 - 200 meters a set of apertures for the transmitter is supplied for operation at small distance. Transmitter to Receiver.
- Measuring range: 0-5 LEL/m, 0 – 2.5 LEL/m, 0 – 1.0 LEL/m

### ELECTRICAL:

- Connections Transmitter: Three wires.
- Receiver: Three wires
- Power Supply Voltage: 18-30VDC (24VDC nominal)
- Current:  $\leq 0.95$  A typical @ 24 volts DC. inrush current: 1.5A



### OUTPUT SIGNAL:

- Outputs Fully linearized 4-20 mA gas signal



**Honeywell**

**SALE AND SERVICE OF HONEYWELL (OPD) / SPECIFICATION**

### **SEARCHLINE EXCEL**



- Housing Electro-polished ANSI type 316 marine grade stainless steel
- Mounting/brackets Electro-polished ANSI type 316 marine grade stainless steel
- Cover Polished ANSI type 316 marine grade stainless steel
- Lens Treated optical glass
- Integral Cable Armored, flame retardant, halogen free, MUD resistant
- Operating distance 4 to 60m, 30 to 120m or 100 to 200m Transmitter to Receiver.

#### **ELECTRICAL:**

- Connections Transmitter: Three wires.
- Receiver: Three wires
- Power Supply Voltage: 18-30VDC (24VDC nominal)
- Current:  $\leq 0.95$  A typical @ 24 volts DC. inrush current: 1.5A



#### **OUTPUT SIGNAL:**

- Outputs Fully linearized 4-20 mA gas signal



**IR5500**

- Housing Electro-polished ANSI type 316 marine grade stainless steel
- Mounting/brackets Electro-polished ANSI type 316 marine grade stainless steel
- **Type 4X IP66/IP67 weatherproof rating:** highly durable unit.
- Integral Cable Armored, flame retardant, halogen free, MUD resistant
- Operating distance 5 to 30m, 20 to 100m or 80 to 150m Transmitter to Receiver
- **Measuring Range:**
  - ✓ Methane Light Hydrocarbon Unit: 0 to 5,000 ppm•m and 0 to 5 LEL•m
  - ✓ Propane Heavy Hydrocarbon Unit: 0 to 2,000 ppm•m and 0 to 1 LEL•m



### ELECTRICAL:

- Connections Transmitter: Three wires.
- Receiver: Three wires
- Power Supply Voltage: Source: Rated 12 watts maximum at 24 VDC input Receiver: Rated 10 watts maximum at 24 VDC input
- Current:  $\leq 0.95$  A typical @ 24 volts DC. inrush current: 1.5A

### OUTPUT SIGNAL:

- Outputs Fully linearized two 4-20 mA gas signal.

## UNINTERRUPTIBLE POWER SUPPLY

### SERVICE AND MAINTENANCE OF UPS



- Annual Maintenance Contract AMC/CMC
- Call Basu or Spot Services
- UPS Repair Services
- Battery Sales
- Recondition UPS Sale
- UPS/Battery Renting
- Servo Stabilizer



**OUR MISSION :** Y.F Enterprises has a mission of Preventing your power disruptions with the provision of a constant support services on the basis of 24X7X365 days. The service are provided to ensure that issues are resolved at the absolute moment when it is enquired about by the user.



**HITACHI**  
Inspire the Next



We deal in following brands such as  
HITACHI HI+REL, Emersom (Vertiy), DB,  
Schneider, APC, Delta, Nexusups Systems.



Recondition UPS - Recondition UPS multi branded,  
UPS Systems from IKVA to 500  
KVA Capacity.

BATTERIES - We are engaged in Supplying  
UPS batteries of following  
brands such as Quanta, Exide, HBL and Rocket



We have a presence of more than 6 years in  
the market. Our Service Support facility  
available at all major cities across India.





## LOOP POWER INDICATOR AND ACCESSORIES



SALE AND SERVICE OF WIKA



### GENERAL SPECIFICATION:

- Any process value measurement
- Continuous process applications
- Use in any 4-20mA loop



SALE AND SERVICE OF ASHE



### GENERAL SPECIFICATION:

- Any process value measurement
- Continuous process applications
- Use in any 4-20mA loop



SALE AND SERVICE OF AMBETRONICS



### GENERAL SPECIFICATION:

- Any process value measurement
- Continuous process applications
- Use in any 4-20mA loop

## SMOKE/ HEAT DETECTOR'S AND SPRINKLERS



### SALE OF SMOKE AND HEAT DETECTOR'S / SPECIFICATION



#### TECHNICAL SPECIFICATIONS:

- Voltage Range: **16-32 VDC**
- Alarm Current: **10-100mA**
- Quiescent: **40uA @ 24 VDC**
- Operating Temperature: **0°C ~+ 90°C**
- Humidity: **<95%RH**
- Coverage: **50 sq. meters**
- Wiring Mode: **2-Wire**
- Product Size: **106mm in diameter x 52mm depth**



### SALE OF SPRINKLERS AND / SPECIFICATION



**UPRIGHT SPRINKLER**

#### SPECIFICATIONS:

- **Deflector:** Brass
- **Bulb:** Glass
- **Cap:** Copper
- **Frame:** Brass
- **Colour of Bulb:** Orange, Red, Yellow, Green, Blue & Mauve
- **Seal:** Teflon Coated Washer
- **Coverage:** Standard Coverage
- **Temperature Rating:** 57°C (135° F), 68°C (155° F), 79°C (175° F), 93°C (200° F), 141°C (286°F), 182°C (360°F)



**PENDENT SPRINKLER**



**HOSE PIPE**



**HOSE NOZZEL**

## CALIBRATION CYLINDER AND PROXIMITY SENSOR ACCESSORIES



### SALE AND SERVICE OF GAS CYLINDER'S / SPECIFICATION



#### PHYSICAL PROPERTIES:

- Physical properties for all-natural gas and LNG calibration mixture are included on certificate of calibration.
- These can be used for measurement confirmation as part of your quality control procedure and validation.

Component	Con (% mol)	Amount fraction (% mol)
Methane	34 to 100	+0.5% to +1%
Propane	0.05 to 20	+0.5% to +1%



### SALE AND SERVICE OF PROXIMITY SENSOR / SPECIFICATION

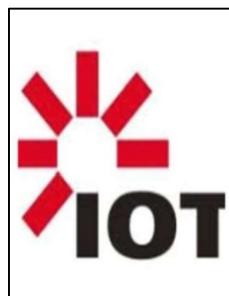
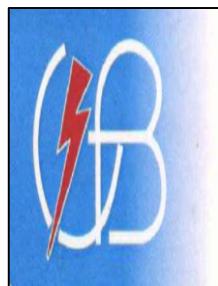


NJ5-18GM-N



- Measuring plate detected:** ≤ 1 mA at nominal voltage
- Safety Integrity Level (SIL):** SIL 2
- Housing material:** Stainless steel
- Output type:** NAMUR
- Certifications:** IECEx approval, PESO & ATEX

## OUR CUSTOMER



## OUR VENDORS



 Our Location:-

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