



Profile & Product Brochure



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- Density Monitoring & Control Products
- PLC Control & Automation Panels

Profile:

- Established in 2013 by an Alumni of IIT BHU (Varanasi)
- ISO 9001:2015 certified organisation
- Experience of more than 10 years in toxic and flammable gas monitoring with focus on clean air and workplace safety.
- Serves various industries across domain including building, manufacturing, petrochem, glass, fertilizers, datacenter etc.
- Total turnover exceeds INR 50 millions
- Manufacturer –
 - CE Certified Gas detection system for toxic and flammable gases
 - Panels – PLC, VFD, LT, Starter
- Supply, installation, commissioning

- Ventilation products – axial fans, jet fans, fire dampers
- Gas detection and control system
- Control panels – PLC, VFD, LT, starter

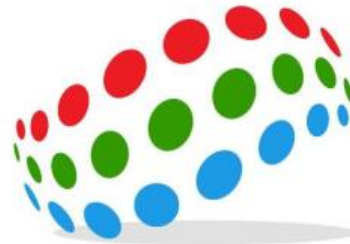
Activities & Service offered:

- Design, advisory services:
 - Air monitoring for toxic, flammable environment
 - Workplace safety with respect to air toxic hazards
 - Proactive measures for assets safety, fire incidences
 - Indoor air quality measures
- Manufacturing
 - Gas Detection & Control Systems
 - Automation & Control Systems
- Supply, integration, commissioning
 - Ventilation products
 - Gas detection & Control system
 - Process & HVAC sensor instrumentations
 - Panels – VFD, PLC, Starter

Industries Served:

| | |
|-----------------|------------------------|
| Construction | Hotels |
| Mining, coal | Pharmaceuticals |
| Defence | Power plants |
| Manufacturing | Food production |
| Clean rooms | Warehouse, cold stores |
| Petrochemicals | Oil & Gas |
| Biotechnology | Railways |
| Breweries | Semiconductor |
| Glass, Ceramics | Refinery |

Our Principals & Brands:



SmartSensor



Approvals & Certifications:



Our Prestigious Clients



ATOTECH Honeywell

VISASTEEL

Coca-Cola



DENSO
Crafting the Core

DLFA

Hero

Johnson
Controls

SIEMENS



HONDA



HONDA Bloomberg

LEIGHTON

Cadbury



Industry Segments



Air Ventilation and Control Products



Key Features

- ✓ AMCA air and sound certified
- ✓ UL 555, UL555 S rated, NFPA compliant
- ✓ Up to 84% fan efficiency,
- ✓ sound rating < 75 dBA,
- ✓ available up to 1600 mm diameter

Fans & Air Movement Products:

- ✓ Axial fans, Tube axial fans
- ✓ Jet Fans
- ✓ Laboratory Exhaust & Ventilation
- ✓ Tube axial roof up-blast
- ✓ Gravity ventilators
- ✓ Inline and ceiling fans
- ✓ Kitchen ventilation system – up-blast
- ✓ Make-Up air Fans
- ✓ Utility fans
- ✓ Centrifugal Fans
- ✓ Radial Blowers

Air Control Products:

- ✓ Fire & Smoke Dampers (Motorised, Manual)
- ✓ Tunnel Transit Dampers
- ✓ Marine Dampers
- ✓ Air Dampers (Motorised, Manual)
- ✓ Insulated Control dampers
- ✓ Volume Control Dampers
- ✓ Backdraft, pressure relief dampers

Gas Detection & Monitoring, Control Systems:



Key Features

- ✓ Online, continuous monitoring of all toxic and flammable gases, oxygen
- ✓ Analog, digital and Modbus Output
- ✓ CE approved, UL, EMC compliant
- ✓ ATEX, SIL 2 for Hazardous area (flameproof, Ex proof)
- ✓ Wall, duct, pipe line mounting
- ✓ BMS, PLC integrated
- ✓ With / Without on-board display

Toxic Gas Sensor:

| | | | |
|------|-------|-----|----------|
| CO | CO2 | NO | O2 |
| H2S | NH3 | CL2 | NO2 |
| H2 | SO2 | CS2 | C2H4 |
| HCN | F2 | HCL | PH3 |
| CIO2 | Freon | O3 | C2H2 |
| N2 | SiH4 | VOC | Aerosols |

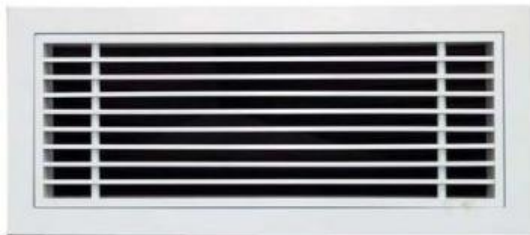
Flammable Gas Sensor:

| | | |
|--------------------|----------------------|---------------------------|
| Hydrogen | LPG | Methane |
| Acetic acid | Acetylene | Acetone |
| Ammonia | Benzene | Butyl acetate |
| Cyclohexane | Cyclopentane | Ethane |
| Ethyl acetate | Ethyl Alcohol | Ethylene |
| Ethylene oxide | Ethyl Ether | Iso- butane |
| Iso butyl alcohol | Isopentane | Iso propanol alcohol |
| Iso propyl Alcohol | Methanol | Methyl ethyl ketone (MEK) |
| n-butane | n-pentane | n-heptane |
| n-octane | Nitrogen trifluoride | Nonane |
| Petrol Vapour | Hydrocarbons | Solvent Vapour |
| Propyl Alcohol | Styrene | Toluene |
| Trimethylbenzene | Vinyl Acetate | Xylene |

Air-conditioning & Air Distribution products



- ✓ Air Handling Units – Floor, Ceiling
- ✓ Fan Coils Units
- ✓ Air Scrubbers
- ✓ Air Washers
- ✓ Energy Recovery System



- ✓ Pre-insulated PUF Sheets / Panels
- ✓ Pre-insulated Air-conditioning Ducts
- ✓ Grills – Linear, Round etc.
- ✓ Diffusers



Differential Pressure Measurement & Control



Key Features:

- ✓ Gauge, Switch, Transmitter and combination
- ✓ Available for air, clean gases, water, liquids, sewage, effluent, industrial discharge, chemicals, oil, lubricants etc.
- ✓ For DP, vacuum, overpressure, flow monitoring
- ✓ Wall, surface, duct, pipe mounting
- ✓ Industry standard analog output, BMS integrable
- ✓ Hazardous area Explosion proof - Zone 1, 2, 22 (gas, dust)
- ✓ Various media contact, diaphragm, seal, gasket material
- ✓ Robust, accuracy, shock-resistant, chemical resistant
- ✓ Various function output eg. square root function available
- ✓ CE, VDS, ATEX, GL approved



Pressure Measurement & Control



Key Features:

- ✓ Gauge, Switch, Transmitter and combination
- ✓ Available for air, clean gases, water, liquids, sewage, effluent, industrial discharge, chemicals, oil, lubricants etc.
- ✓ For vacuum, overpressure, negative pressure, liquid level, flow monitoring
- ✓ Industry standard analog output, BMS integrable
- ✓ Wall, surface, duct, pipe mounting
- ✓ Available for hazardous area
Explosion proof - Zone 1, 2, 22 (gas, dust)
- ✓ Industrial and commercial grade
- ✓ Industrial standard output
- ✓ Various media contact, diaphragm, seal, gasket material
- ✓ Robust, accuracy, shock-resistant, chemical resistant
- ✓ Various function output eg. square root function available
- ✓ CE, VDS, ATEX, GL approved

Temperature Measurement & Control



Key Features:

- ✓ Gauge, Switch, Transmitter and combination
- ✓ For air, clean gases, water, liquids, sewage, effluent, industrial discharge, chemicals, oil, lubricants etc.
- ✓ Contact type (RTD, Pt100, Pt1000, NTC etc. based) and non-contact type (infra-red based)
- ✓ For absolute, differential temperature monitoring
- ✓ Industry standard analog output, BMS integrable
- ✓ Wall, surface, duct, pipe mounting
- ✓ Available for hazardous area Explosion proof - Zone 1, 2, 22 (gas, dust)
- ✓ Industrial standard output
- ✓ Various media contact, seal, gasket material
- ✓ Robust, accuracy, shock-resistant, chemical resistant
- ✓ CE, VDS, ATEX, GL approved

Flow Measurement & Control:



Key Features:

- ✓ Switch, Transmitter and combination
- ✓ Available for air, clean gases, water, liquids, sewage, effluent, industrial discharge, chemicals, oil, lubricants etc.
- ✓ Based on hot-wire, vane type, differential pressure, ultrasonic technology
- ✓ Industry standard analog output, BMS integrable
- ✓ Wall, Remote, duct, pipe, inline mounting
- ✓ Available for hazardous area Explosion proof - Zone 1, 2, 22 (gas, dust)
- ✓ Industrial and commercial grade
- ✓ Industrial standard output
- ✓ Various media contact, diaphragm, seal, gasket material
- ✓ Robust, accuracy, shock-resistant, chemical resistant
- ✓ Various function output eg. square root function available
- ✓ CE, VDS, ATEX, GL approved

Level Measurement



Key Features:

- ✓ Gauge, Switch, Transmitter and combination
- ✓ Float switch, immersion probes, multi-float level indicators
- ✓ Available for water, liquids, diesel, hydrocarbons, sewage, effluent, industrial discharge, chemicals, oil, lubricants etc.
- ✓ For conductive and non-conductive liquid media
- ✓ For contact type (resistance, capacitance, pressure, differential pressure based) and non-contact type (ultrasound based)
- ✓ Industry standard analog & HART output, BMS integrable
- ✓ Available for hazardous area Explosion proof - Zone 1, 2, 22 (gas, dust)
- ✓ Industrial and commercial grade
- ✓ Industrial standard output
- ✓ Various media contact, seal, gasket material
- ✓ Robust, accuracy, shock-resistant, chemical resistant
- ✓ CE, VDS, ATEX, GL, FDA approved

Fire and Smoke Measurement & Control



Flame detectors



Key Features:

- ✓ Fire and smoke detector, Early fire and smoke detection system
- ✓ Flame detector (UV/ IR), IR3
- ✓ Available for safe and hazardous area (Zone 1, Zone 2, 22) ATEX, FM certified
- ✓ Wall, duct mounting
- ✓ Industry standard analog & relay output, BMS integrable
- ✓ Industrial and commercial grade
- ✓ Industrial standard output
- ✓ Robust, accuracy, shock-resistant, chemical resistant
- ✓ CE, ATEX, FM, FDA approved



Weather Condition Measurement & Control:

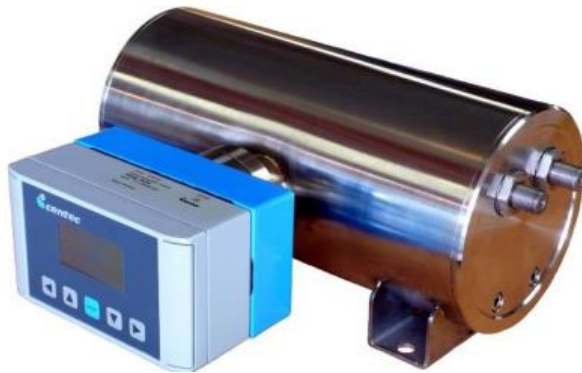
- ✓ Wind Direction (Vane type, ultrasonic)
- ✓ Wind Speed / Velocity (Vane type, ultrasonic)
- ✓ Compass
- ✓ Air temperature, humidity, condensation
- ✓ Barometric Pressure
- ✓ Solar Radiation
- ✓ Visibility measurement
- ✓ PM 2.5, PM 10 particulate matter
- ✓ Lux Monitor
- ✓ Sound Monitor
- ✓ Leakage Monitor
- ✓ Dew Point Monitoring



Density, flow Measurement & Control

Features / Parameters:

- ✓ Suitable for density, flow, viscosity, temperature monitoring of liquids, beverages, milk, alcohols, acids, sugar etc.
- ✓ Determines - sugar content, extract contents, specific gravity, density of medicinal formulations, acids, bases concentration, petroleum additives etc.
- ✓ Also for petroleum, chemical, hydrocarbons
- ✓ For batch, online monitoring
- ✓ Industry standard analog, HART, Modbus RTU output
- ✓ Variety of contact material, seal to suit application



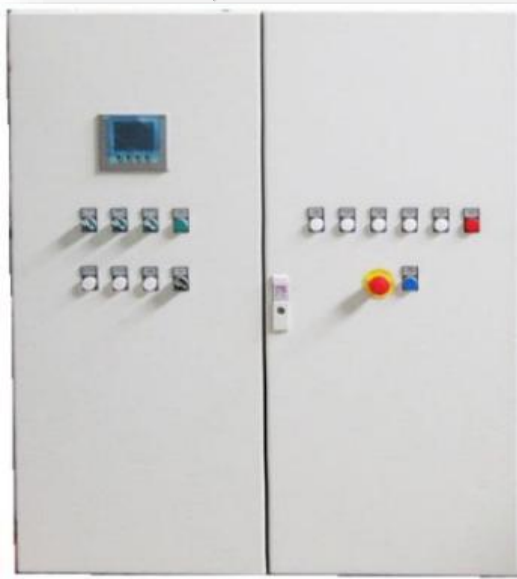
Control and Automation Systems



Electric Actuator:

- ✓ Electric Actuators for fire, air, fire/ smoke, smoke dampers, For butterfly valve, ball valve control
- ✓ Various power supply options: 230VAC, 24V AC, 24V DC
- ✓ Torque range: 2 Nm to 800 Nm
- ✓ On / Off, modulating
- ✓ Available for safe (HVAC), explosion proof area (Zone 1, 2, 22)
- ✓ Fast acting, slow run time
- ✓ Marine compliant / approved

Control & Automation Panels:



- ✓ Alarms for gas detection, pressure, flow, smoke / fire, velocity, level, visibility etc.
- ✓ PLC panels for all field devices - monitor, alarm, control and automate
- ✓ PLC Panels for - car parks, Fan control, compressor, motor control, alarms, cold stores, LPG / CNG / PNG leakage alarm system
- ✓ BMS / SCADA integration
- ✓ Fire alarm system integration
- ✓ VFD Panels for - motor, compressor, Fan control



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