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INSIGHT INSTRUMENTS

ABOUT US

We started **"INSIGHT INSTRUMENTS"** in Jan-2024 with Experience technical team who has capable in Technical Sales, Application Solution, Service Support via. ON-CALL & ON-SITE both.

We **"INSIGHT INSTRUMENTS"** are Solution Provider for Process instrumentation Like Flow, Level, Pressure, Temperature, Analytical Instruments like pH, Conductivity, TDS, TSS and Automation Solution like Control Panel, Datalogging System, Remote Controlling, Cloud based control systems.

– APPLICATIONS –

– PARAMETERS –

Electromagnetic Flowmeter

Line Size: 15 mm to 1600 mm

Display: LCD Backlit, 5 Digit Flow rate, 10-digit Flow Totalizer

Accuracy: 0.5% (0.3 m/s to 10.0 m/s Velocity)

Power Supply: 24 VDC, 90-260VAC, 12 VDC (Solar Compatible)

Lining: Rubber, PTFE, PFA

Electrode: SS316L, Hastelloy C, Tantalum, Titanium

Protection Class: IP67/ IP68

Output: 4-20mA, RS485 Modbus, Alarm (2 nos. Flow), HART

Flame proof model Available

Application: Conductive Liquid (Minimum 5 uS)

Orifice Based Differential Pressure Flowmeter

Line Size: 25 mm to 250 mm

Accuracy: +/- 2.5% of RD

Material: CS, SS

Output: 4 to 20mA, RS485

End Connection: Threaded End, Flange End

Working Pressure: up to 22 Bar(g)

Working Temperature: Max. 600 Degree C

Application: Steam, Air, Gas, Mixture of Gas, Thermic Fluid

Thermal Mass Flowmeter

Application: Dry AIR, Dry GAS (PNG, CNG, LPG)

Line: 15 mm to 1000 mm

Temperature: 0 to 100 Degree C

Pressure: up to 40 Bar

Output: 4 to 20 mA, RS485

Velocity: 5 m/s to 150 m/s

Power Supply: 24 VDC. 90-260 VAC

Protection: IP65, Flameproof

Turndown Ratio: 1:40

Ultrasonic Flowmeter

Application: Clear Water

Line Size: 15 mm to 1000 mm

Temperature: 0 to 100 Degree C

Pressure: up to 20 Bar

Installation: Clamp on, Inline, Insertion

Display: Flow rate, Totalizer

Accuracy: = +/- 1% of FS

Power Supply: 24 VDC, 90-260 VAC, Battery Operated

Output: 4 to 20 mA, Datalogging

Digital Turbine Flow Meter

Line: 15 mm to 200 mm

Temp: Standard 65 Degree C, Max. 150 Degree C

Pressure: Max. 20 Bar(g)

MOC: PVC, SS304, SS316L

Connection: Flange Type, Threaded, Tri clover Clamp

Enclosure: Weather proof, Flameproof

Power Supply: 24 VDC, 90-260 VAC

Output: 4 to 20 mA, RS485, Batching

Flame proof model Available

Application: Clear Liquid

Mass Flow Controller

Application: Air, Gases, Mixture of Gases

Accuracy: ±0.5% of the reading or ±1% of full scale

MOC: Aluminum/SS

End Connection: Threaded End

Temp: -10 °C to 60 °C

Pressure Range: Max up to 21 Bar

Ingress Protection: IP40, IP65, Explosion Proof

Output: Analog, Digital

Vortex Flowmeter

Application: All Liquid, Air, Gas, Steam, OIL

Pressure: up to 100 Bar

Temperature: up to 300 Degree C

Output: 4 to 20 mA, RS485 & Etc.

Velocity: 5 m/s to 220 m/s

Power Supply: 24 VDC. 90-260 VAC

Protection: IP65, Flameproof

Oval Gear Flowmeter

Line Size: 15 mm to 100 mm

Temperature: 0 to 100 Degree C

Pressure: up to 20 Bar

Installation: Inline

Display: Flow rate, Totalizer, BTU

Accuracy: =/- 1% of FS

Power Supply: 24 VDC, 90-260 VAC, Battery Operated

Output: 4 to 20 mA, RS 485, Relay

Coriolis Flowmeter

Application: All Liquid, Air, Gas, Steam, OIL

Temperature: 0 to 150 Degree C

Pressure: up to 100 Bar

Temperature: up to 300 Degree C

Output: 4 to 20 mA, RS485 & Etc.

Velocity: 5 m/s to 220 m/s

Power Supply: 24 VDC. 90-260 VAC

Protection: IP65, Flameproof

Pitot Tube Flowmeter

Application: WET Air, DRY Air

Pressure: up to 160 Bar

Temperature: up to 120 Degree C

Output: 4 to 20 mA, RS485 & Etc.

Accurate flow measurement even at low flow rates, with a minimum cut-off velocity of 5 m/s.

Power Supply: 24 VDC

Protection: IP65

Turn-down ratio: 40: 1

LEVEL

Level Switches & Indicators

Side Mounted, Top Mounted, Miniature, Cable Float

- Application: LIQUID
- Material: PP, SS316
- Connection: BSPP, NPT, Flanged

Magnetic Level Indicator, Reflex/Transparent Level Gauge, Tubular Level Gauge, Float & Board Level Gauge

- Application: LIQUID
- Mounting: Side/ Side or TOP
- Material: SS, Powder Coated CS

Vibrating Fork Level Switch, Paddle Level Switch, RF Admittance Level Switch, Capacitance Level Switch

- Application: SOLID & Powder
- Material: SS, PTFE Coated
- Connection: Threaded, Flange

Level Transmitters

Hydrostatic Level Transmitter

- Application: Tanks (Overhead, Underground), Wells, Reservoirs
- Fluid: Liquid Only

Capacitance Level Transmitter

- Application: storage tanks and reaction vessels, silos
- Fluids: Solid & Liquids

Ultrasonic Level Transmitter

- Application: reservoirs, Storage tanks, and open channels
- Fluid: Solid, Liquid, Powder

Radar Level Transmitter

- Application: Storage tanks, reaction vessels
- Fluid: Solid, Liquid, Powder

TEMPERATURE

Temperature Sensors & Gauge

- BIMETAL Temperature Gauge, Inert Gas Filled Temperature Gauge, Electric Contact Temperature Gauge
- RTD, Thermocouple Sensor, PT500, PT1000
- Enclosure: Aluminum, SS with IP65, IP66, IP67, IP68, Ex-Proog, ATEX
- Thermowell Also provided

Temperature Transmeters

- Field Mounted, Head Mounted, Panel Mounted
- Input: All type Temperature Sensor
- Output: 4-20 mA, HART, Fieldbus (Field Mounted Only)
- Certification: ATEX, FM, IECEx

Temperature Switch

- Inert Gas Filled Temperature Switch
- Range: -50 to 650 Degree C
- Enclosure: Weatherproof, Flameproof

PRESSURE

Pressure Gauge

- Standard Pressure Gauge, Capsule Pressure Gauge, Diaphragm Pressure Gauge
- Electric Contact Pressure Gauge, Differential Pressure Gauge
- Range: - 1 to 2100 bar
- Different Dial Size
- Dry, Filled & Fillable Pressure Gauge

Pressure Transmitter

- Gauge, Differential & Absolute Pressure Transmitter
- Diaphragm Seal Type
- Range: - 1 to 250 Bar
- Enclosure: Weatherproof, Ex-Proof, ATEX

Pressure Switch

- Pressure & Differential Pressure Switch
- Range: 250 mmWC to 600 bar
- Enclosure: Weatherproof, Flameproof

Analytical Instruments

Measuring Parameters:

- Like: pH, Conductivity, TDS, TSS, DO, COD, BOD
- Low Conductivity can be measure
- Temperature Compensation
- Factory pre-calibration for easy set up and field calibration for more accuracy
- Standard Modbus RTU Protocol, Direct Connected with PLC, HMI, Eliminate I/O Module Cost
- Fully compatible with PC software View TM for easy setup and data logging
- Applications: Water, Waste Water, Chemicals

Manual & Automation Valves

All Type of Manual Valves

- Like: Ball Valve, Butterfly Valves, Gate Vales
- All Type of Automation Valve:
- Like: Ball Valve, Butterfly Valves, Gate Vales
- Valves in Different Material: (MS, SS, PVC, Aluminum)

Strainers (Y Type, T Type, Basket Strainer)

APPLICATIONS & INSTALLATION PHOTOS

01. ICE CRÈME Making Machinery
(Air/Cream Flow measurement)

02. Effluent Plant
(MEE FEED, ETP, STP, Treated Water)

03. Compressor Air
(DRY/ WET)

04. CGWA NORMS
(Borewell Water, Piezometer (Borewell Level), DWLR, Telemetry System

05. Batching System
(Solvent, OIL, All Liquids)

06. Milk Tank Filling System

07. Datalogging System
(Computer, Panel)

08. GAS Measurement
(PNG, LNG, CNG, LPG), Nitrogen, Oxygen, Etc.

09. Flow controlling
for Air, Gases, Liquid

10. Chiller Application
(Flow, BTU)

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