

BUSINESS CATALOGUE

SINCE
2013

**"Your Complete Source for Advanced Process Instruments,
Control Systems, and Automation Solutions."**

ISHAN AUTOMATION

Temperature Transmitters

- **Types** : Head, DIN Rail & Field Mounted
- Latest HART-7 Protocol Communication
- High reliability with exceptional EMC performance
- **Applications** : Cement, Steel, Food, Pharmaceutical, HVAC systems, and more



Pressure Transmitters

- Piezoresistive Pressure Sensor
- **Pressure Types** : Gauge, Absolute, and Differential Pressure Transmitters
- **Types** : Smart, Compact, and Remote Seal Type
- Latest HART-7 Protocol Communication
- **Applications** : Cement, Steel, Chemical, Power generation, and more

Level Transmitters

- Hydrostatic Level, Ultrasonic Level, Pulse Radar, Hydrological Radar, FMCW Radar, Guided Wave Radar and 3D Radar
- Frequency range up to 24GHz, 26GHz, 80GHz, 120GHz, and 144GHz
- **Applications** : Water treatment, Chemical tanks, Grain silos, and more



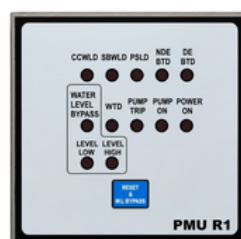


Flow Transmitters

- **Types :** Electro-magnetic, Differential Pressure, Coriolis, Oval Wheel, Thermal Mass, Turbine, Ultrasonic, Vortex & Water Flow Meter
- Suitable for various fluid types
- **Mounting Options :** Available in various configurations – insertion, clamp-on, inline, flange, etc.
- **Applications :** Water, Oil & Gas, Steam & Air, Chemical processing, and more

Controller

- **Types :** ON-OFF, Ramp-Soak, PID, Differential Controller, Flow Indicator cum Totalizer, Multi Channel Process Controller, PMU (Pump Monitoring Unit) and Universal Input Process Controller
- **Features :** High-precision monitoring, real-time data logging, dual display, and programmable setpoints
- **Communication :** Modbus, Serial RS-485, Lora WAN, Bluetooth, Wireless, GSM and advanced protocol compatibility
- **Applications :** Water management, custody transfer, multi-zone furnace control, power monitoring, and diverse factory automation systems



Monitoring and Specialization

- **Types :** Gas Flow Computer, Steam Flow Computer, and PMU (Pump Monitoring Unit)
- **Functionality :** High-speed processing for complex flow compensation calculations and precision electrical grid telemetry
- **Compliance & Standards :** Meets global industry standards for custody transfer, energy metering, and power quality analysis
- **Applications :** Natural gas distribution, boiler house efficiency monitoring, steam balancing, and substation grid synchronization

Analytical

- **Types :** Chlorine, Conductivity, Dissolved Oxygen, Multi Parameter, ORP, pH Analyzer, and Turbidity
- **Features :** Precise liquid analysis, continuous real-time monitoring, auto-calibration support, and rugged sensor designs for harsh environments
- **Applications :** Water and wastewater treatment, chemical processing, pharmaceuticals, food and beverage, and aquaculture monitoring



SCADA & Cloud Solutions

- **Core Capabilities :** Real-time data acquisition, centralized supervisory control, cloud-based data logging, and remote asset monitoring
- **Features :** Interactive HMI dashboards, advanced trend analysis, automated alarm notifications (SMS/Email), and secure end-to-end data encryption
- **Applications :** Distributed infrastructure, smart water management, remote substation monitoring, multi-plant industrial automation, and IoT-enabled predictive maintenance

Pressure Accessories

- **Types :** Syphon, Condensate Pot, SS Air Header, Capillary Flange, Capillary Flange with Transmitter, and Manifold Valves
- **Features :** High-pressure ratings, corrosion-resistant stainless steel construction, and effective isolation/protection for delicate pressure sensing elements
- **Applications :** Steam line isolation, impulse line condensate trapping, multi-point air distribution, and remote seal pressure measurement in corrosive or viscous processes





Level Switches

- **Types** : Float Level Switch, Vibrating Level Switch, Capacitance Level Switch, and Ultrasonic Level Switch
- **Features** : Reliable point level detection, overflow protection, dry-run prevention, and robust designs suitable for liquids, slurries, and solids
- **Applications** : Pump control, storage tank high/low alarms, wastewater treatment, and material handling silos

Pressure Switches

- **Types** : Blind Pressure Switch, Indicating Pressure Switch, Differential Pressure Switch, and Explosion-Proof Pressure Switch
- **Features** : Adjustable setpoints, high repeatability, snap-action microswitches, and rugged enclosures for harsh or hazardous environments
- **Applications** : Safety interlocking, pump and compressor control, pipeline overpressure protection, and hydraulic system monitoring



Temperature Switch

- **Types** : Bimetallic Temperature Switch, Liquid/Gas Filled Bulb Temperature Switch, Digital Temperature Switch, and Explosion-Proof Temperature Switch
- **Features** : Adjustable temperature setpoints, automatic or manual reset options, high repeatability, and durable thermowell compatibility for heavy-duty protection
- **Applications** : Engine jacket water cooling, bearing temperature protection, compressor high-temperature trips, and industrial oven safety interlocking



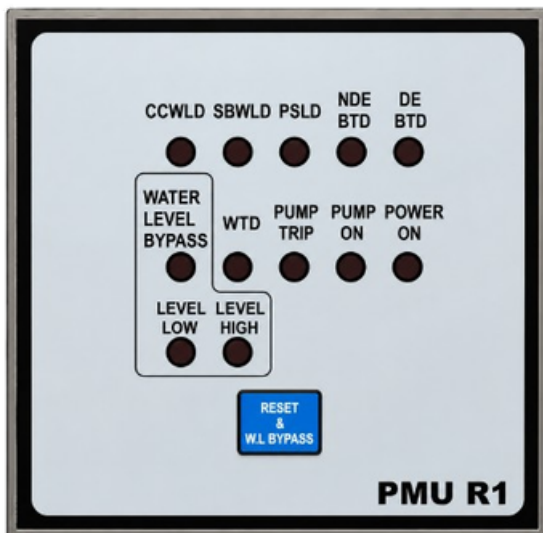
Pressure Gauges

- **Types :** Bourdon Tube Pressure Gauge, Diaphragm Pressure Gauge, Capsule Pressure Gauge, Differential Pressure Gauge, and Digital Pressure Gauge
- **Features :** High-visibility analog or digital displays, overpressure protection, movement dampening (glycerin/silicone filling), and robust weatherproof enclosures
- **Applications :** Local pressure monitoring, chemical pipelines, hydraulic systems, boiler steam lines, and HVAC installation testing



PMU (Pump Monitoring Unit)

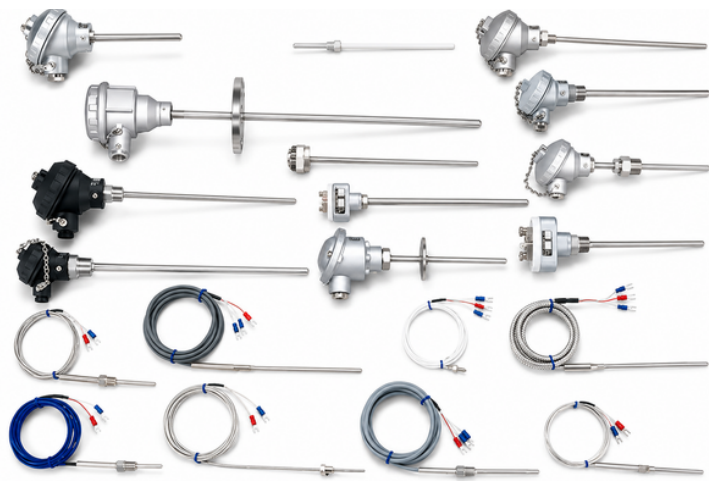
- **Features :** Comprehensive electrical and mechanical health tracking, dry-run prevention, overload/underload protection, and real-time power quality monitoring
- **Data Metrics :** Current unbalance, voltage fluctuations, power factor, runtime logging, and phase failure detection
- **Applications :** Submersible pumps, industrial water supply systems, irrigation networks, and wastewater lifting stations



Orifice Plate

- **Types :** Square-Edged, Concentric, Eccentric, Segmental, and Conical Entrance Orifice Plates
- **Features :** Cost-effective primary flow elements, manufactured in strict compliance with ISO 5167 / ASME MFC-3M standards, and available with complete flange assemblies or carrier rings
- **Applications :** Differential pressure-based flow measurement for clean liquids, gases, and low-velocity steam lines across diverse industrial processes





Temperature Sensors

- **Contact Types** : Thermocouples (Types J, K, T, E, N, S, R, B) and Resistance Temperature Detectors (RTD Types Pt-100, Pt-200, Pt-1000)
- **Non-Contact Types** : Online Infrared Pyrometers, Portable Infrared Thermometers, and Optical Pyrometers
- **Features** : Available with customized thermowells (Flanged, Welded, Threaded, Helical) and specialized protective coatings like Tungsten, Ceramic, and Teflon
- **Applications** : Direct element immersion or non-contact thermal imaging for precise process temperature monitoring across cement, steel, glass, and chemical industries

Temperature Gauges

- **Types** : Bimetallic Temperature Gauge, Gas-Filled Temperature Gauge, Liquid-Filled Temperature Gauge, and Digital Temperature Gauge
- **Features** : High-visibility analog or digital displays, rugged weatherproof casings, external reset adjustments, and versatile mounting options (back, bottom, or adjustable angle)
- **Applications** : Local temperature monitoring in chemical pipelines, boiler systems, food and beverage processing, HVAC systems, and industrial power plants



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