

IoT Gateway

RTU-100



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Mounting	DIN rail / rack / wall mountable
Inputs/Outputs	8 × Digital Input 5 × Digital Output 15 × Analog Input
Power Supply	24V – 62V DC
Operating Temperature	–20°C to 60°C

Sensor Specifications & Monitoring Capabilities

Flow Monitoring

Type	Clamp-on Ultrasonic, Paddle Wheel, or Magnetic type
Pipe Range	DN50 – DN700
Power Supply	AC 220V / DC 24V
Output	4-20mA / 0-5V / RS485 Modbus
Temperature Limit	≤120°C
Function	Real-time flow rate & totalizer

Electrical Performance Monitoring

Device	Power Analyzer & Energy Meter
Parameters	Voltage, Current, Power Factor, Total Harmonic Distortion (THD)
Communication	Real-time data logging

Pressure Monitoring

Type	Explosion-proof Pressure Sensor (psi & bar scale)
Placement	Suction & discharge lines
Output	0-5V / RS485 / 4-20mA Modbus
Medium	Saline & fresh water

Vibration Monitoring (optional for surface pumps)

Type	Industrial Vibration Sensor
Output	4-20mA / 0-5V
Purpose	Detects imbalance, bearing faults, misalignment

Temperature Monitoring

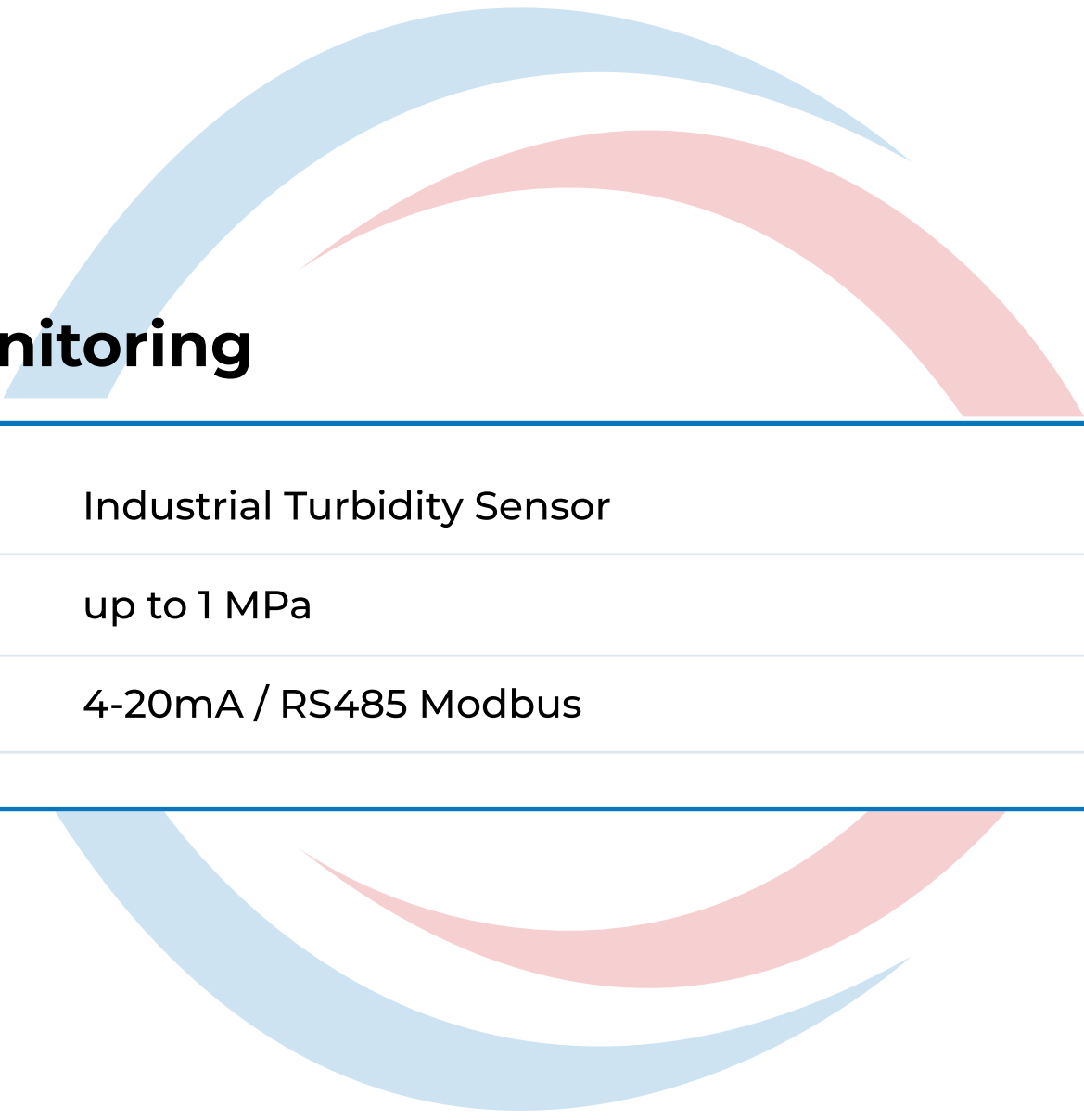
Type	Inline Water Temperature & Motor Temperature sensors
Output	Wired to Gateway

pH Monitoring

Type	Industrial, explosion-proof
Range	0–14 pH
Output	4-20mA / RS485 Modbus

Water Quality Monitoring

Parameters	Dissolved Oxygen, pH, Conductivity, Temperature, Level
Output	RS485 or analog/digital signals



Turbidity Monitoring

Type	Industrial Turbidity Sensor
Pressure Range	up to 1 MPa
Output	4-20mA / RS485 Modbus

Dissolved Oxygen Monitoring

Type	Optical DO Sensor, Fluorescence Quenching Technology
Range	0–20 mg/L or 0–200% saturation
Accuracy	±1% or ±0.3 mg/L
Temp Range	0°C to 50°C
Depth Limit	60m
Output	RS485 Modbus
Material	Titanium alloy

IoT Gateway & Communication Infrastructure

Interfaces	4G/3G, Modbus RS485, Ethernet, Analog & Digital I/O
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Local Storage	1GB (optional)
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Transmission Interval	10 sec – 10 min adjustable
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Enclosure Rating	IP20–IP60 (indoor/outdoor)
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Power	AC/DC compatible
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