WASTEWATER SYSTEMS

PRODUCTS APPLIED FOR
WASTEWATER TREATMENT PLANT & PROCESS

WasteWater treatment Plant & Process

level monitoring

level transmitters

• ULT: Ultrasonic Level Transmitter

Flow monitoring

• PVF/CPF: PVC and CPVC Industrial Flowmeters
• SSM/SSB: 316 SS or Brass Industrial Flowmeters
• P-72: P-72 material for caustics, chlorine, gas or liquid

Valves

• BBV-1/BBV-2: Valve Block Manifold

Flow Proving

Flow switches

• V4: Vane Operated Flow Switch

Pressure monitoring

Pressure transmitters

• 626/628: Single Pressure Transmitter
• EDA: Indicating Pressure Switch and Transmitter
• 3200: Explosion-Proof Pressure Transmitter

Pressure switch

• DA: Pressure Switch
• EDA: Indicating Pressure Switch and Transmitter

DP Pressure transmitters

• 3100: Explosion-Proof Differential Pressure Transmitter

Flow monitoring

Flow transmitters

• PUX2: Portable Transit Time Ultrasonic Flowmeter
• UXF3: Fixed Transit Time Ultrasonic Flowmeter
• ULF: Ultrasonic Open Channel Flow

level monitoring

• PBLT2/PBLTX: Hydrostatic Level Transmitter
• FBLT: Submersible Level Transmitter

BC-WWS

WASTEWATER SYSTEMS
INSTRUMENTATION


WASTEWATER TREATMENT PLANT & PROCESS

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PRODUCTS APPLIED FOR
WASTEWATER TREATMENT PLANT & PROCESS

Chemical Treatment Applications
- Flow Transmitters
- Level Transmitters

Flow Monitoring
- ULT: Ultrasonic Level Transmitter
- PVF/CPF: PVC and CPVC Industrial Flowmeters
- SSM/SSB: 316 SS or Brass Industrial Flowmeters
- P-72: P-72 material for caustics, chlorine, gas or liquid

Valves
- BBV-1/BBV-2: Valve Block Manifold

Flow Proving
- V4: Vane Operated Flow Switch

Pressure Monitoring
- 626/628: Single Pressure Transmitter
- EDA: Indicating Pressure Switch and Transmitter
- 3200: Explosion-Proof Pressure Transmitter
- DA: Pressure Switch
- EDA: Indicating Pressure Switch and Transmitter
- 3100: Explosion-Proof Differential Pressure Transmitter

Flow Monitoring
- PUX2: Portable Transit Time Ultrasonic Flowmeter
- UXF3: Fixed Transit Time Ultrasonic Flowmeter
- ULF: Ultrasonic Open Channel Flow

Level Monitoring
- PBLT2/PBLTX: Hydrostatic Level Transmitter
- FBLT: Submersible Level Transmitter

BAR SCREEN GRIT TANK
SEDIMENTATION TANK (PRIMARY CLARIFIER)
AERATION TANK
SECONDARY CLARIFIER
AIR
HOMES, OFFICES, INDUSTRIES
INFLUENT
PUMPING STATION
TO LANDFILL
DISINFECTION (CHLORINE CONTACT TANKS AND ULTRAVIOLET)
RECEIVING WATER
EFFLUENT
DIGESTER
ELECTRICITY & HEATING
LANDFILL
INCINERATION
FERTILIZER
PRODUCTS APPLIED FOR
WASTEWATER TREATMENT PLANT & PROCESS

Wastewater treatment plant & process

- Level Transmitters
- Flow Monitoring
- Pressure Monitoring
- Flow Monitoring
- Pressure Transmitters
- Flow Transmitters
- Level Monitoring
- Valves
- Flow Proving
- Flow Switches
- Pressure Switches
- Pressure Control

Level Monitoring:
- ULT: Ultrasonic Level Transmitter
- PVF/CPF: PVC and CPVC Industrial Flowmeters
- SSM/SSB: 316 SS or Brass Industrial Flowmeters
- P-72: P-72 material for caustics, chlorine, gas or liquid

Flow Monitoring:
- BBV-1/BBV-2: Valve Block Manifold

Pressure Monitoring:
- 626/628: Single Pressure Transmitter
- EDA: Indicating Pressure Switch and Transmitter
- 3200: Explosion-Proof Pressure Transmitter
- DA: Pressure Switch
- EDA: Indicating Pressure Switch and Transmitter

Pressure Monitoring:
- 3100: Explosion-Proof Differential Pressure Transmitter

Pressure Control:
- 3200: Explosion-Proof Pressure Transmitter

Flow Monitoring:
- PUX2: Portable Transit Time Ultrasonic Flowmeter
- UXF3: Fixed Transit Time Ultrasonic Flowmeter
- ULF: Ultrasonic Open Channel Flow

Level Monitoring:
- PBLT2/PBLTX: Hydrostatic Level Transmitter
- FBLT: Submersible Level Transmitter

Chemical treatment applications

Pump control applications

Bar screen applications

Wastewater process applications

BAR SCREEN GRIT TANK
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WASTEWATER SYSTEMS
INSTRUMENTATION

Pressure Flow Level Valves

Pressure Flow Level Valves

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**LEVEL SWITCH LIFT STATION APPLICATION**

- **LDT**: Dual Leak Detection and Over-Temperature Relay
- **FPC-1200**: Duplex Alternating Pump Controller
- **FSW2**: Cable Float Switch that is self weighted
- **CFS2**: Cable Float Switch with counter-weight to adjust pump on/off level

**LEVEL SWITCH STATION APPLICATION**

- **LDT**: Dual Leak Detection and Over-Temperature Relay
- **DLD**: Dual Leak Detection Relay
- **SLD**: Single Leak Detection Relay

**LEVEL TRANSMITTER LIFT STATION APPLICATION**

- **FPC-1200**: Duplex Alternating Pump Controller
- **MPC**: Duplex Alternating Pump Controller with seal failure and over-temperature monitor
- **ULT**: Ultrasonic Level Transmitter
- **CRF2**: Capacitive Level Transmitter
- **FBLT**: Submersible Level Transmitter
- **PBLT2/PBLTX**: Hydrostatic Level Transmitter

**LEVEL TRANSMITTER STATION APPLICATION**

- **MPCJR**: Duplex Alternating Pump Controller
- **MPM**: Alternating Pump Controller for up to 8 pumps
- **MTL7706/7787**: Zener Barrier
- **MTL5041/5045**: Galvanic Isolator

**PRODUCTS APPLIED FOR**

**MANHOLE**

- **Duplex Alternating Series FPC-1200 Pump Controller**

**CONTROL PANEL**

- **Free-Floating Level INTO STATION**
- **Submersible Level Transmitter Series PBLT2 Transmitter**
- **Ultrasonic Level Transmitter Series MPC**
- **Radar Level Transmitter Series FBLT Transmitter**

**INLET**

- **Provides intrinsically safe isolation for level transmitters approved for location in hazardous areas.**
- **Monitors the stator temperature of the pump and turns off the pump if it over heats.**
- **Monitors the seal of submersible pumps to detect water leakage into the seal cavity.**
- **Indicates level in the lift station with a transmitter output.**
**SERIES QPC**

- **LDT:** Dual Leak Detection and Over-Temperature Relay
- **LDT:** Dual Leak Detection and Over-Temperature Relay
- **DLD:** Dual Leak Detection Relay
- **SLD:** Single Leak Detection Relay
- **QPC:** Quadraplex Alternating Pump Controller
- **FPC-1200:** Duplex Alternating Pump Controller with seal failure and over-temperature monitor
- **FSW2:** Cable Float Switch that is self-weighted
- **CFS2:** Cable Float Switch with counter-weight to adjust pump on/off level

**PRODUCTS APPLIED FOR**

- **MANHOLE**
  - **Duplex Alternating Series FPC-1200 Pump Controller**
  - **Series FSW2 Submersible Level Transmitter**
  - **Series CFS2 Cable Float Switch**

**LEVEL SWITCH LIFT STATION APPLICATION**

- **Level Switches**
  - Monitors the stator temperature of the pump and turns off the pump if it overheats.
  - Monitors the seal of submersible pumps to detect water leakage into the seal cavity.
  - Turn on and off the pumps according to the level in the lift station and gives level alarm outputs.

- **Control Panel**
  - Provides intrinsically safe isolation for level transmitters approved for location in hazardous areas.

**LEVEL TRANSMITTER LIFT STATION APPLICATION**

- **Level Transmitters**
  - Monitors the level in the lift station at specific points.
  - Provides a transmitter output indicating the level in the lift station.

**PRODUCTS APPLIED FOR**

- **Ultrasonic Level Transmitter**
- **Submersible Level Transmitter**
- **Hydrostatic Level Transmitter**
- **Radar Level Transmitter**
- **Intrinsic Safety Barriers**
### OVER-TEMPERATURE DETECTION
- Monitors the stator temperature of the pump and turns off the pump if it over heats.
- Provides intrinsically safe isolation for level transmitters approved for location in hazardous areas.

### SEAL FAILURE / LEAK DETECTION
- Monitors the seal of submersible pumps to detect water leakage into the seal cavity.

### PUMP CONTROLLERS
- To turn on and off the pumps according to the level in the lift station and gives level alarm outputs.
- Indicates level in the lift station at specific points.

### LEVEL SWITCH LIFT STATION APPLICATION
- **MTL7706/7787**: Zener Barrier
- **MTL5041/5045**: Galvanic Isolator
- **LDT**: Dual Leak Detection and Over-Temperature Relay
- **LDT**: Dual Leak Detection and Over-Temperature Relay
- **DLD**: Dual Leak Detection Relay
- **SLD**: Single Leak Detection Relay
- **MPM**: Alternating Pump Controller for up to 8 pumps
- **MPCJR**: Duplex Alternating Pump Controller
- **MPC**: Duplex Alternating Pump Controller with seal failure and over-temperature monitor
- **GWL**: Radar Level Transmitter
- **ULT**: Ultrasonic Level Transmitter
- **CRF2**: Capacitive Level Transmitter
- **FBLT**: Submersible Level Transmitter
- **PBLT2/PBLTX**: Hydrostatic Level Transmitter
- **ULT**: Ultrasonic Level Transmitter
- **CRF2**: Capacitive Level Transmitter
- **FBLT**: Submersible Level Transmitter
- **PBLT2/PBLTX**: Hydrostatic Level Transmitter
- **MTL7706/7787**: Zener Barrier
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### LEVEL SWITCH STATION APPLICATION
- **MPCJR**: Duplex Alternating Pump Controller with seal failure and over-temperature monitor
- **MPC**: Duplex Alternating Pump Controller with seal failure and over-temperature monitor
- **GWL**: Radar Level Transmitter
- **ULT**: Ultrasonic Level Transmitter
- **CRF2**: Capacitive Level Transmitter
- **FBLT**: Submersible Level Transmitter
- **PBLT2/PBLTX**: Hydrostatic Level Transmitter
- **ULT**: Ultrasonic Level Transmitter
- **CRF2**: Capacitive Level Transmitter
- **FBLT**: Submersible Level Transmitter
- **PBLT2/PBLTX**: Hydrostatic Level Transmitter
- **MTL7706/7787**: Zener Barrier
- **MTL5041/5045**: Galvanic Isolator

### LEVEL TRANSMITTER LIFT STATION APPLICATION
- **FBLT**: Submersible Level Transmitter
- **PBLT2/PBLTX**: Hydrostatic Level Transmitter
- **ULT**: Ultrasonic Level Transmitter
- **CRF2**: Capacitive Level Transmitter
- **FBLT**: Submersible Level Transmitter
- **PBLT2/PBLTX**: Hydrostatic Level Transmitter
- **ULT**: Ultrasonic Level Transmitter
- **CRF2**: Capacitive Level Transmitter
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- **MTL7706/7787**: Zener Barrier
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### LEVEL TRANSMITTER STATION APPLICATION
- **FBLT**: Submersible Level Transmitter
- **PBLT2/PBLTX**: Hydrostatic Level Transmitter
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LEVEL SWITCH LIFT STATION APPLICATION
- LDT: Dual Leak Detection and Over-Temperature Relay
- LDT: Dual Leak Detection and Over-Temperature Relay
- DLD: Dual Leak Detection Relay
- SLD: Single Leak Detection Relay
- QPC: Quadraplex Alternating Pump Controller
- DPC: Duplex Alternating Pump Controller
- FPC-1200: Duplex Alternating Pump Controller with seal failure and over-temperature monitor
- FSW2: Cable Float Switch that is self weighted
- CFS2: Cable Float Switch with counter-weight to adjust pump on/off level

LEVEL SWITCH STATION APPLICATION
- MPC: Duplex Alternating Pump Controller with seal failure and over-temperature monitor
- GWL: Radar Level Transmitter
- ULT: Ultrasonic Level Transmitter
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INTERMEDIATE SAFE BARRIERS
- MTL7706/7787: Zener Barrier
- MTL5041/5045: Galvanic Isolator

LEVEL MEASUREMENT
- MPC: Duplex Alternating Pump Controller with seal failure and over-temperature monitor
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LEVEL REGULATION
- ULT: Ultrasonic Level Transmitter
- CRF2: Capacitive Level Transmitter
- FBLT: Submersible Level Transmitter
- PBLT2/PBLTX: Hydrostatic Level Transmitter

OVER-Temperature Detection
- seals Failure / leak Detection
- PumP controllers
- leVel Switches

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PRODUCTS APPLIED FOR
WASTEWATER TREATMENT PLANT & PROCESS

Chemical Treatment Applications
- UU: Ultrasonic Level Transmitter
- PP: Level Probes

Flow Monitoring
- UL: Ultrasonic Flowmeter
- PVF/CPF: PVC and CPVC Industrial Flowmeters
- SSM/SSB: 316 SS or Brass Industrial Flowmeters
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Valves
- BBV-1/BBV-2: Valve Block Manifold

Flow Proving
- V4: Vane Operated Flow Switch

Pressure Monitoring
- 626/628: Single Pressure Transmitter
- EDA: Indicating Pressure Switch and Transmitter
- 3200: Explosion-Proof Pressure Transmitter
- DA: Pressure Switch
- EDA: Indicating Pressure Switch and Transmitter

Pressure Monitoring
- 3100: Explosion-Proof Differential Pressure Transmitter

Flow Monitoring
- PUX2: Portable Transit Time Ultrasonic Flowmeter
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