Submersible Level Transmitters

PBLT2 & PBLTX - Durable and Reliable for Waste Water

- Lightning surge protected on PBLT2 models.
- Excellent compatibility with all 316 SS construction and ETFE cable.
- Clog-proof with large diameter flush diaphragm.
- Stand-off plate to protect diaphragm.
- Intrinsically safe on PBLTX models.*

SBLT2 & SBLTX - Compact for Well and Tank Use

- Lightning surge protected on SBLT2 models.
- Bullet nose to protect sensor.
- Intrinsically safe on SBLTX models.*

**SPECIFICATIONS**

**Wetted Materials:**
- Body: 316 SS and Buna-N; Cable: ETFE or Polyurethane; Bullet Nose: PVC.
- Body: 316 SS and Buna-N; Cable: ETFE or Polyurethane; Bullet Nose: PVC.

**Accuracy:**
- ±0.25% of full scale.
- ±0.25% of full scale.

**Temperature Limits:**
- PBLT2: 0 to 200°F (-18 to 93°C); PBLTX: 0 to 176°F (-18 to 80°C).
- SBLT2: 0 to 150°F (-18 to 66°C); SBLTX: 0 to 176°F (-18 to 80°C).

**Compensated Temperature Range:**
- PBLT2: 0 to 180°F (-18 to 82°C); PBLTX: 0 to 176°F (-18 to 80°C).
- SBLT2: 0 to 140°F (-18 to 60°C); SBLTX: 0 to 176°F (-18 to 80°C).

**Pressure Limit:**
- 2X full scale range.
- 2X full scale range.

**Power Requirement:**
- PBLT2: 13 to 30 VDC; PBLTX: 10 to 28 VDC.
- SBLT2: 13 to 30 VDC; SBLTX: 10 to 28 VDC.

**Electrical Protection:**
- PBLT2: Lightning and surge protection; PBLTX: none.
- SBLT2: Lightning and surge protection; SBLTX: none.

**Output Signal:**
- 4 to 20 mA DC, two wire.
- 4 to 20 mA DC, two wire.

**Enclosure Rating:**
- Intrinsically safe with proper barrier on PBLTX.*
- Intrinsically safe with proper barrier on SBLTX.*

**Mounting Orientation:**
- Suspended in tank below level being measured.
- Can be placed on the bottom of the tank on its side.

**Weight:**
- 4.3 lb (2.0 kg) not including cable.
- 2.2 lb (1.0 kg).

**Agency Approvals:**
- PBLT2: none; PBLTX: CE, UL intrinsically safe for Class I, Div. 1, Groups A, B, C, D; Class II, Div. 1, Groups E, F, G; Class III, Div. 1.*
- SBLT2: none; SBLTX: CE, UL intrinsically safe for Class I, Div. 1, Groups A, B, C, D; Class II, Div. 1, Groups E, F, G; Class III, 1.*

SBLT2-5-40 5 psi (.35 bar) (11.54 ft. w.c.) 40 feet (12.2 m)
SBLT2-10-40 10 psi (.69 bar) (23.09 ft. w.c.) 40 feet (12.2 m)
SBLT2-15-60 15 psi (1.03 bar) (34.63 ft. w.c.) 60 feet (18.3 m)
SBLT2-20-60 20 psi (1.39 bar) (46.18 ft. w.c.) 60 feet (18.3 m)

A Better System for Pump & Level Control!

- No problematic float switches.
- Eliminate pump control panel components.
- Protect and monitor your pumps for longer life.

Your Best Solution for Pump & Level Control

- No problematic float switches.
- Eliminate pump control panel components.
- Protect and monitor your pumps for longer life.

Mercoi
Providing Quality Controls Since 1917
### Submersible Level Transmitters

#### PBLT2 & PBLTX - Durable and Reliable for Waste Water

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<th>Model Number</th>
<th>Pressure Range</th>
<th>Cable Length</th>
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- Lightning surge protected on PBLT2 models.
- Excellent compatibility with all 316 SS construction and ETFE cable.
- Clog-proof with large diameter slash diaphragm.
- Stand-off plate to protect diaphragm.
- Intrinsically safe on PBLT2 models.*

#### SBLT2 & SBLTX - Compact for Well and Tank Use

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- Intrinsically safe on PBLT2 models.*

### Model Chart

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<tr>
<td>PBLT2-5-40</td>
<td>316 SS and Buna-N, Cable: ETFE</td>
<td>±0.25% of full scale</td>
<td>0 to 200°F (-18 to 93°C)</td>
<td>0 to 180°F (-18 to 82°C)</td>
<td>2X full scale range</td>
<td>13 to 30 VDC</td>
<td>Lightning and surge protection</td>
<td>4 to 20 mA DC, two wire</td>
<td>Intrinsically safe with proper barrier on PBLTX.*</td>
<td>Suspended in tank below level being measured. Can be placed on the bottom of the tank on its side.</td>
<td>4.3 lb (2.0 kg)</td>
<td>none; PBLTX: CE, UL intrinsically safe for Class I, Div. 1, Groups A, B, C, D; Class II, Div. 1, Groups E, F, G; Class III, Div. 1.*</td>
</tr>
<tr>
<td>PBLT2-10-40</td>
<td>316 SS and Buna-N, Cable: ETFE</td>
<td>±0.25% of full scale</td>
<td>0 to 176°F (-18 to 80°C)</td>
<td>0 to 176°F (-18 to 80°C)</td>
<td>2X full scale range</td>
<td>13 to 30 VDC</td>
<td>Lightning and surge protection</td>
<td>4 to 20 mA DC, two wire</td>
<td>Intrinsically safe with proper barrier on PBLTX.*</td>
<td>Suspended in tank below level being measured. Can be placed on the bottom of the tank on its side.</td>
<td>4.3 lb (2.0 kg)</td>
<td>none; PBLTX: CE, UL intrinsically safe for Class I, Div. 1, Groups A, B, C, D; Class II, Div. 1, Groups E, F, G; Class III, Div. 1.*</td>
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*For intrinsically safe approval change model number from SBLT2 to SBLTX. (SBLTX is not surge protected)

*For intrinsically safe approval change model number from PBLT2 to PBLTX. (PBLTX is not surge protected)
MPC Junior

Low Cost Alternating Pump Control

For your less demanding applications where all the features of the MPC are not needed, Mercoid offers the MPC Junior for about half the cost of an MPC. The Junior still features the same easy-to-program, customizable scale range, two programmable SPDT relays, and packaging features of the MPC.

SYSTEM INTEGRATION

• Pump alternation for two pumps. Minimum pump wear by alternating the pump associated with the primary set point.
• Local indication of level or monitored process in user-defined scale range.
• Integral power supply for level or process transmitter.
• Security lock-out. User-selectable lock-out of programming and/or the set points.

SYSTEM MONITORING

• Pump run time indication built-in and is easily viewable from a front panel button.
• Alarm contacts. Two alarm contacts programmable for any value, such as high and low level alarms, with front panel light indication.
• Process input retransmission as a current or voltage analog signal (optional).
• Remote computer control via RS-232 or RS-485 Modbus® RTU Serial Communications. Allows remote computer to read and write all control parameters (optional).

PUMP PROTECTION

• Seal failure indication when used with a submersible pump that includes a moisture sensor. Front panel alarm light and programmable alarm contact for remote indication.

OVER TEMPERATURE INDICATION

• Over temperature indication when used with a pump that includes an over-temperature temperature switch. Front panel alarm light indication and programmable alarm contact for remote indication. Overheated pump is automatically removed from service and can be brought back into service automatically or by manual reset when pump has cooled down.

Automatic cutoff of alternation. A pump seal failure or over-temperature failure will force the good pump to lead status. With a seal failure both pumps remain in service. With an over-temperature failure the failed pump is shielded from service.

Specifications

- Input: 110 to 120V AC or 220 to 240V AC, 50 or 60 Hz (0.5 to 3 HP)
- Output: 2 SPDT Relay, Max. 10A @ 120V AC, 6A @ 240V AC
- Alarm: 2 SPDT Relay, Max. 10A @ 240V AC
- Power Requirements: 110 to 120V AC, 15VA; 220 to 240V AC, 30VA
- Dimensions: Type 4X enclosure, 2" high x 2.75" wide x 9.5" deep
- Weight: 7 lbs (3.2 kg)
-Agency Approvals: UL 508, CE, CSA Type A, NEMA Type 4X

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Perfect Solutions for Single or Double Pump Control!

MPC Pump Controller Family

Control, monitor, and protect pump operations with the MPC family of pump controllers. The MPC Series is designed for use with any analog process transmitter — flow, level, or pressure. You can program the controllers to display the process in any range that you want to correspond to the transmitter input. The controllers incorporate programmable differentials for on/off control of one or two pumps, valves, etc., through two SPDT relays.

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Two alarm contacts programmable for any value, such as high and low level alarms, with front panel alarm light indication and programmable alarm contact for remote indication. Over-heated pump is automatically removed from service and can be brought back into service automatically or by manual reset when pump has cooled down.

Automatic cutoff of alternation. A pump seal failure or over-temperature failure will force the good pump to lead status. With a seal failure both pumps remain in service. With an over-temperature failure the failed pump is automatically removed from service and can be brought back into service automatically or by manual reset when pump has cooled down.

SYSTEM INTEGRATION

- Pump alarm indication
- Security lock-out
- User-selectable lock-out of programming and/or the set points.
- Auto power down
- Integral power supply
- Front panel alarm light indication.
- Programmed alarm contacts
- Remote computer control
- Remote computer control via RS-232 or RS-485 Modbus
- Weatherproof Enclosures
- NEMA 4X
- Junior for about half the cost of an MPC. The Junior still features the same easy programming, customizable scale range, two programmable SPDT relays, and packaging features of the MPC.

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- Junior for about half the cost of an MPC. The Junior still features the same easy programming, customizable scale range, two programmable SPDT relays, and packaging features of the MPC.

Power Requirements:

- 10 to 24 VDC or 100 to 500 VAC
- 0.5 VA

Alarm Contacts:

- 2 (or 0) to 10 VDC selectable.
- 1 count.
- 50 to 400 Hz, single phase; 132 Hz nominal, +10% to -15%.
- 7.5 VA at 15%.
- 10 ohms, Voltage = 5 k
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MPC Pump Controller Family

Control, monitor, and protect pump operations with the MPC family of pump controllers. The MPC Series is designed for use with any analog process transmitter – flow, level or pressure. You can program the controls to display the process in any range that you want to correspond to the transmitter input. The controllers incorporate programmable differentials for on/off control of one or two pumps, valves, etc., through two SPDT relays.

You will appreciate the user-friendly programming menu that displays setting titles. The controls are in a standard 1/4 DIN mounting size, and feature a NEMA 4X front face plate for outdoor panel mounting. There are so many features in the MPC that you can eliminate components from your pump control system.

MPC

Alternating Pump Control with Built-In Pump Protection

SYSTEM INTEGRATION
- Pump alarm function for two pumps. Minimum pump flow or alternating the pump associated with the primary set point.
- Local indication of low or monitored process in user defined scale range.
- Integral power supply for level or process transmitter.
- Process simulators from Test Systems/Instrumentation. Cycle through programmed scale range to insure pumps are operating and tests programming without having to fill and empty the tank.
- Security lock-out. User-selectable lock-out of programming and/or the set points.

SYSTEM MONITORING
- Pump run time indication built in and is easily accessible from a front panel button.
- Alarm contacts. Two alarm contacts programmable for any value such as high and low level alarms, with front panel light indication.
- Process input retransmission as a current or voltage analog signal (optional).
- Remote computer control via RS-232 or RS-485 Modbus® RTU Serial Communications. Allows remote computer to read and write all control parameters (optional).

PUMP PROTECTION
- Seal failure indication when used with a submersible pump that includes a moisture sensor. Front panel alarm light and programmable alarm contact for remote indication.
- Over temperature indication when used with a pump that includes an over heat temperature switch. Front panel alarm light indication and programmable alarm contact for remote indication. Overheated pump is automatically removed from service and can be brought back into service automatically by manual reset when pump has cooled down.
- Automatic cutoff of alternation. A pump seal failure or over-temperature failure will force the good pump to lead status. With a seal failure both pumps remain in service. With an over temperature failure the failed pump is shutdown from service.

Perfect Solutions for Single or Double Pump Control!

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SYSTEM INTEGRATION
- Pump alarm function for two pumps. Minimum pump flow or alternating the pump associated with the primary set point.
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- Integral power supply for level or process transmitter.
- Security lock-out. User-selectable lock-out of programming and/or the set points.

SYSTEM MONITORING
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- Alarm contacts. Two alarm contacts programmable for any value such as high and low level alarms, with front panel light indication.
- Process input retransmission as a current or voltage analog signal (optional).
- Remote computer control via RS-232 or RS-485 Modbus® RTU Serial Communications. Allows remote computer to read and write all control parameters (optional).

SPECIFICATIONS

Power Requirements: 15 VDC @ 20 mA
Input Impedance: 10 ohms, Voltage = 5 kΩ
Display Resolution: 4 (or 0) to 20 mA DC or
±0.25% of span, ±1 count.
Display: Seven segment 0.56˝ high LED’s.
Control Relays: 1/10 hp @ 120 VAC, 1/10 hp @ 240 VAC res., 1/4 hp @ 120 VAC, 1/4 hp @ 240 VAC res., 1/3 hp @ 240 VAC.
Alarm Relays: 1 count.
Temperature/RH:
Ambient Operating: -10 to 55°C/0 to 90% up to 31°C condensing.
Sensor): ±10% of span, ±2°C.
Loop Power Supply: 24 VDC @ 50 mA, 2.5 VDC.
Two alarm contacts programmable for any value, such as high and low level alarms, with front panel light indication.
- Process input retransmission as a current or voltage analog signal (optional).
- Remote computer control via RS-232 or RS-485 Modbus® RTU Serial Communications. Allows remote computer to read and write all control parameters (optional).

Weatherproof Enclosures, NEMA 4X:

Front plastic window with rear panel for mounting the control
Enclosure includes a front hinge and lockable latch.

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- Clog-proof with large diameter flush diaphragm.
- Stand-off plate to protect diaphragm.
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MODEL CHART

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<th>Pressure Range</th>
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<td>SBLT2-15-60</td>
<td>15 psi (1.03 bar) (34.63 ft. w.c.)</td>
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<td>SBLT2-20-60</td>
<td>20 psi (1.39 bar) (46.18 ft. w.c.)</td>
<td>60 feet (18.3 m)</td>
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SPECIFICATIONS

Wetted Materials:
- Body: 316 SS and Buna-N; Cable: ETFE or Polyurethane; Bullet Nose: PVC.

Accuracy:
±0.25% of full scale.

Temperature Limits:
- PBLT2: 0 to 200°F (-18 to 93°C);
- PBLTX: 0 to 176°F (-18 to 80°C).

Compensated Temperature Range:
- PBLT2: 0 to 180°F (-18 to 82°C);
- PBLTX: 0 to 176°F (-18 to 80°C).

Pressure Limit:
2X full scale range.

Power Requirement:
- PBLT2: 13 to 30 VDC;
- PBLTX: 10 to 28 VDC.

Electrical Protection:
- PBLT2: Lightning and surge protection; PBLTX: none.

Output Signal:
4 to 20 mA DC, two wire.

Enclosure Rating:
Intrinsically safe with proper barrier on PBLTX.*

Mounting Orientation:
Suspended in tank below level being measured.
Can be placed on the bottom of the tank on its side.

Weight:
- PBLT2: 4.3 lb (2.0 kg) not including cable;
- SBLT2: 2.2 lb (1.0 kg).

Agency Approvals:
- PBLT2: none;
- PBLTX: CE, UL intrinsically safe for Class I, Div. 1, Groups A, B, C, D;
Class II, Div. 1, Groups E, F, G; Class III, Div. 1.*

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Modbus® is a registered trademark of Schneider Automation

MC300® is a registered trademark of Mercoid

Providing Quality Controls Since 1917

*For intrinsically safe approval change model number from SBLT2 to SBLTX.
(SBLTX is not surge protected)

*For intrinsically safe approval change model number from PBLT2 to PBLTX.
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