

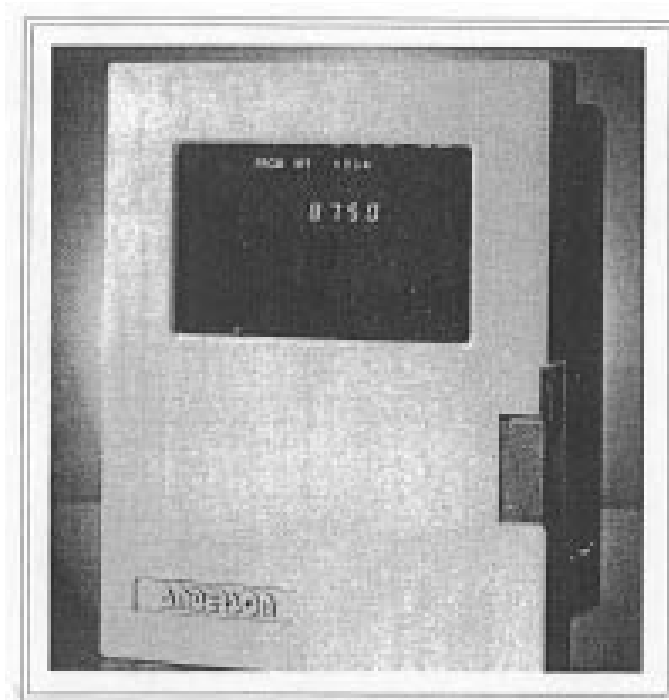
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# Instruction Manual



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## Pulse 100 Liquid Level Monitor

Form Number AIC1007  
Revised: March 2006  
Supersedes: Rev. 1.0

## I. Power Wiring

110 V power wiring is performed by removing the power supply board from the unit. A small lock tab holds the supply in the card slot. Once loosened, the power supply will slide out of the instrument, exposing the L1, L2 and GND terminals. Once wired, slide the supply back into the slot, making sure that the board plugs into its associated connector.

## II. Signal Wiring

Wiring connections are located on the main circuit board, with row J4 being Sensor Input Wiring Terminal, and row J5 being Retransmission Wiring Terminals. Terminal Strips J6 and J7 are dedicated to the Relay Output Connections.

**A.** SL Level Sensor Input connections should be wired to the +EX and the +IN terminals. This will provide 15 VDC which will power the transmitter.

4-20 mA Transmitter (Unpowered) :	SHD (clear) ----- GND
	LOOP + (red) ----- +EX
	LOOP - (black) ----- +IN

**B.** The retransmission signal is accessed by wiring to the (+) and (-) OUT terminals. This will provide a 4-20mA proportional signal that is powered by 15 VDC.

(-) mA output (black) -----	-OUT
(+) mA output (red) -----	+OUT

## III. Process Data

The Pulse 100 Level Monitor comes pre-calibrated. The programmed data is recorded for reference, with the label located on the inside of the door. New data may be entered using four momentary contact switches located on the inside door. These switches are labeled as S1, S2, S3, and S4. These switches are used in conjunction with the DIP Switch bank S1. This switch bank is located in the upper right corner of the main circuit board. Data programming sequence is as follows.

Note: D1-D2, D3-D4, and D5-D6 refer to the digits on the front LED Display

<u>DIP Switch Number</u>	<u>Description</u>
1-5 Closed 6 Open	Normal Operation
1 Open	Specific Gravity: S4-Up(D1-D2), S3-Up(D3-D4) S2-Up(D5-D6), S1-Minus
2 Open	Decimal Point Location: S4
1,2 Open	Span: S4-Up(D1-D2), S3-Up(D3-D4) S2-Up(D5-D6), S1-Minus
3 Open	Offset: S4-Up(D1-D2), S3-Up(D3-D4) S2-Up(D5-D6), S1-Minus
1,3 Open	R1 Setpoint: S4-Up(D1-D2), S3-Up(D3-D4) S2-Up(D5-D6), S1-Minus (Relay energizes above setpoint)

<u>DIP Switch Number</u>	<u>Description</u>
2,3 Open	R2 Setpoint: S4-Up(D1-D2), S3-Up(D3-D4) S2-Up(D5-D6), S1-Minus (Relay energizes above setpoint)
1,2,3 Open	R3 Setpoint: S4-Up(D1-D2), S3-Up(D3-D4) S2-Up(D5-D6), S1-Minus (Relay energizes below setpoint)
4 Open	R4 Setpoint: S4-Up(D1-D2), S3-Up(D3-D4) S2-Up(D5-D6), S1-Minus (Relay energizes below setpoint)
1,4 Open	Max Specific Gravity: S4-Up(D1-D2), S3-Up (D3-D4) S2-Up(D5-D6), S1-Minus
2,4 Open	Physical Offset: S4-Up
1,2,4 Open	Tank Type: S4 (0 or 1)
3,4 Open	Station #: S4 (1-31)
1,3,4 Open	Baud Rate: S4 Selects 300, 1200, 2400, or 9600
2,3,4 Open	Hysteresis: S4 selected 0-50%
1,2,3,4, Open	Allows RS-232 Communications Link
5	Must Remain Closed For Normal Operation
6	Open: No values below offset displayed Closed: Values below offset will be displayed
7	Open: Display in Liters/Kilograms Closed: Display in Pounds/Gallons
8	Open: Display in weight Closed: Display in volume

Programming sequence is as follows:

1. Flip associated dip switch, per above chart
2. Press RESET button, located in upper right corner of main circuit board
3. View front display, and make changes using momentary contact switches on inside of door
4. Once correct value is on display, move DIP Switch back to original position, and hit RESET button.

All data is stored in EEPROM memory, and will not be erased or lost in the event of a power interruption.



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