

Simplex Pump Control Panel

120/240 VAC · Field Selectable | Demand · 3-Float or 2-Float Control | Type 4X
DESIGNED & MANUFACTURED BY LEGACY CONTROLS · MIMS, FLORIDA · UL 508A LISTED

Product Overview

Designed and manufactured by Legacy Controls, this single-phase simplex panel provides reliable demand pump control with dual-voltage flexibility — 120 or 240 VAC, field selectable by Quick Change Grouping Pin — and flexible float configuration (3-float or 2-float) in a Type 4X indoor/outdoor enclosure. LE-4001 supplies the panel only; LE-4003 includes the float switch set.

PART NUMBERS	CP-001-4-0001 & 4-0003	RETAIL MODELS	LE-4001 (panel only) · LE-4003 (with floats)
UL FILE NUMBER	E547664	DOCUMENTATION	Manual v3.2 · Line Drawing v2.8 · Connection Diagram v2.3
KEY COMPONENT	R1 logic relay · configurable floats	SPEC VERSION	3.2 · August 2026

Key Features

- Dual voltage — 120/240 VAC, field selectable via Quick Change Grouping Pin
- 3-float demand control — On · Off · High Water — field configurable to 2-float via grouping pins
- On/Off logic relay (R1) — latching pump control, full drawdown
- Protection — 25 A MCB for pump + IEC installation contactor · 5 A MCB for alarm & control circuits
- HOA selector — AUTO/OFF/ON + green pump run indicator
- Alarm — red beacon + 85–95 dB buzzer · test button · buzzer ON/OFF switch
- Enclosure — Type 4X — quick latch, lockable, indoor/outdoor

⚠ READ FIRST — CONTROL-CIRCUIT JUMPER & 120/240 V SELECTION

A factory wire jumper powers the control circuit from L1 — the panel will not operate without it; remove it only for a separate 120 V control-circuit feed (remains energized with the main off). **Ships 120 V** (grouping pin, Terminal 2–Neutral) — **remove the pin for 240 V** and verify with a multimeter. Neutral required even at 240 V.

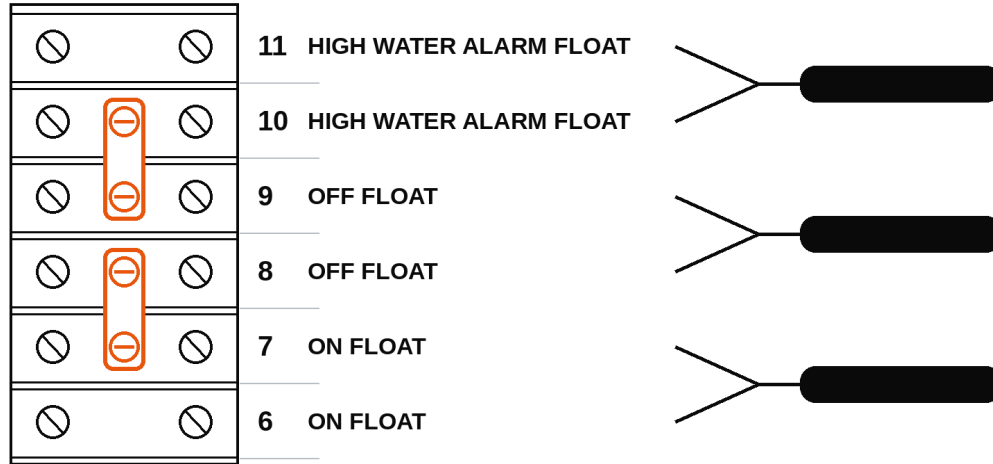
TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATION
Part Numbers / Compliance	CP-001-4-0001 & CP-001-4-0003 · UL 508A Listed · File E547664
Voltage	Dual — 120 VAC (factory default via grouping pin) or 240 VAC (remove pin), single phase
Pump Capacity	Single pump, up to 20 FLA — 1 HP @ 120 VAC or 2 HP @ 240 VAC
Supply Circuit	30 A minimum supply circuit ampacity — 25 A pump branch + 5 A alarm & control circuit branch · control circuit via factory jumper or separate 120 V feed
Control Type	Demand — 3-float (On · Off · High Water) with R1 logic relay · field configurable to 2-float
Alarm System	Red beacon + 85–95 dB buzzer · test button · buzzer ON/OFF · alarm circuit limited to 5 A
Protection	25 A MCB for pump + IEC installation contactor · 5 A MCB for alarm & control circuits
Enclosure	Type 4X polycarbonate, 10 × 8.4 × 5.2 in · quick latch, lockable · approx. 7 lbs
Field Wiring	Copper, 60 °C min, 26–10 AWG, 600 V · terminal torque 0.79 N·m (7.0 in-lbs)

PARAMETER	SPECIFICATION
Environment	0–40 °C (32–104 °F) · up to 95% humidity, non-condensing

FLOAT CONFIGURATION & APPLICATION

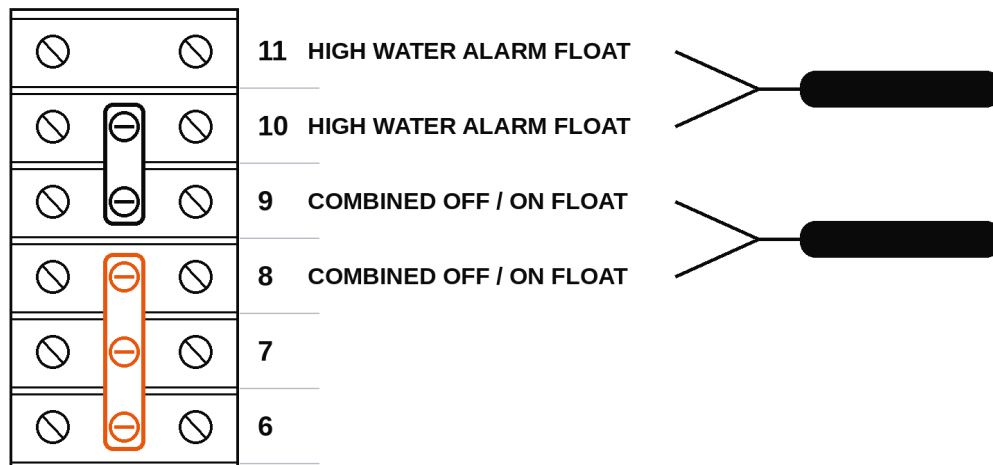
Two field-configurable float setups using grouping pins on the terminal block — all pins included. In AUTO, the pump starts at the On level and latches through the Off Float for full drawdown; the High Water Float is for alarm notification only.



Factory grouping pins installed: terminals 7–8 and 9–10.
Three floats — On (6 & 7) · Off (8 & 9) · High Water Alarm (10 & 11).

CONFIGURATION A — FACTORY DEFAULT · 3-FLOAT

Separate On (6 & 7), Off (8 & 9), and High Water Alarm (10 & 11) floats — factory pins on 7–8 and 9–10.



3-pin jumper installed across terminals 6, 7, 8 (7–8 pin removed). Combined Off/On float on 8 & 9.
High Water Alarm float on 10 & 11. The factory 9–10 pin remains installed — never connect it to terminals 6, 7, or 8.

CONFIGURATION B — FIELD OPTION · 2-FLOAT

Combined Off/On float (8 & 9) + High Water Alarm float (10 & 11) — install the 3-pin jumper across 6, 7, 8.

INSTALLER NOTE For Configuration B, connect terminals 6, 7, and 8 only — the factory pin on terminals 9 & 10 remains installed and must not be connected to terminals 6, 7, or 8. All floats normally open (NO), pump-down. Make changes with power disconnected.

PRODUCT DIMENSIONS

PANEL MODEL	OVERALL W	OVERALL H	DEPTH	MTG. W × H
CP-001-4-0001	10.3"	13.28"	5.8"	5.49 × 11.32"
CP-001-4-0003	10.3"	13.28"	5.8"	5.49 ×

PANEL MODEL	OVERALL W	OVERALL H	DEPTH	MTG. W × H
				11.32"

Overall dimensions include mounting flanges; enclosure body 10 × 8.4 × 5.2 in.

SUPPORT & WARRANTY End users: contact the authorized dealer or installer who supplied the system for all service and warranty claims. **Dealer & sales inquiries: Legacy Controls · 6200 FL-46, Mims, Florida 32754 · (321) 284-8592 · Support@Legacy-Controls.com.** Two (2) year limited warranty to the original purchaser, administered through the authorized dealer.

COMPLIANCE & NOTES

- **Installation** — by qualified personnel only, per NEC and UL 508A
- **Feeder** — field-supplied main disconnect and feeder breaker required — 30 A minimum supply circuit ampacity — 25 A pump branch + 5 A alarm & control circuit branch
- **Overloads** — integral to the pump motors — no overload devices in this panel
- **Control circuit** — powered from L1 via factory wire jumper to the Separate Control Feed terminals; optional separate 120 V feed remains energized when the main feed is off
- **Floats** — all floats normally open (NO) type · neutral required even at 240 V
- **Alterations** — any alteration, modification, or unauthorized repair voids the UL listing and warranty
- **Documentation** — see CP-001-4-0001/0003 Operation Manual v3.2, Line Drawing v2.8, and Connection Diagram v2.3