

Duplex Time-Dose Pump Control Panel

120/240 VAC · Field Selectable | Duplex · Automatic Alternation | Time-Dose Control

DESIGNED & MANUFACTURED BY LEGACY CONTROLS · MIMS, FLORIDA · UL 508A LISTED

PRODUCT OVERVIEW

Designed and manufactured by Legacy Controls, the CP-001-6-0002 / 6-0004 is a UL 508A Listed dual-voltage duplex time-dose control panel. A single 120/240 V feed powers two pump circuits, the alarm system, and the control logic. The TELE E1ZI10 timer provides precise timed dosing, the TELE E1ZMLA10 alternator balances lead/lag runtime, and a three-float system escalates from timed dosing to continuous run to dual-pump high-water response.

KEY FEATURES

- Dual voltage 120/240 VAC — field-selectable via quick grouping pin
- Automatic lead/lag alternation — TELE E1ZMLA10 load alternator
- Precise time-dose control — TELE E1ZI10 asymmetrical timer
- 3-float control: Timer Enable · Override · Alarm/HWLA
- High water runs BOTH pumps via R1 relay while the alarm sounds
- Independent AUTO / OFF / ON selectors · pump run indicators · alarm test
- Red beacon + 85–95 dB horn with silence switch
- NEMA 4X polycarbonate, lockable · UL 508A Listed · File E547664

PANEL IDENTIFICATION

MODEL

CP-001-6-0002 · 6-0004

RETAIL MODELS

LE-6002 · panel only

LE-6004 · floats included

SERIES

006 · Pump Duplex

UL FILE NUMBER

E547664

DOCUMENTATION

Manual v2.0 · Drawings v1.1

KEY COMPONENTS

TELE E1ZI10 · E1ZMLA10

⚠ READ FIRST — 120/240 V VOLTAGE SELECTION

Field-selectable by grouping pin: **pin installed = 120 V · pin removed = 240 V**. Verify the pin configuration against the connection diagram and confirm panel voltage with a voltage tester before energizing. Neutral required in both configurations. Incorrect configuration can damage connected equipment.

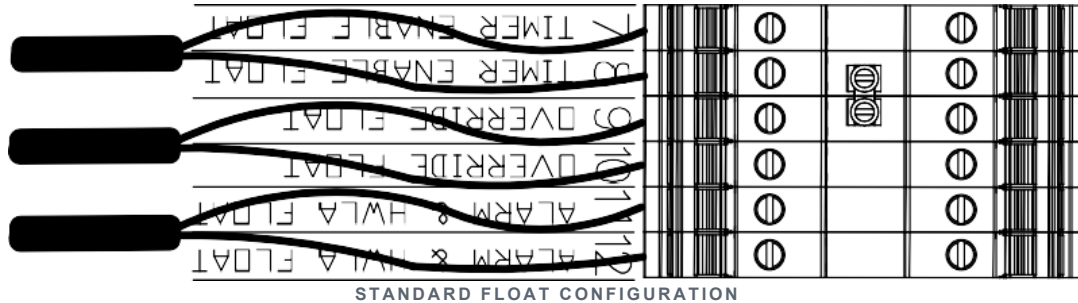
TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATION
Model / Retail	CP-001-6-0002 (panel only) · CP-001-6-0004 (floats included) — LE-6002 / LE-6004
Supply	120/240 VAC, 60 Hz, single phase — single feed, grouping-pin selectable (neutral required)
Total FLA / SCCR	40 A · SCCR 5 kA
Pump Circuits	Two · 2.5 HP max per pump (16 FLA each) — largest motor 16 A
Feeder Protection (Field Supplied)	Upstream at the feeder panel (not in this panel): 50 A breaker recommended
Pump Control	Duplex alternating time dose — E1ZI10 timer + E1ZMLA10 alternator · 3 floats (N.O.)
Alarm System	Red beacon · 85–95 dB horn · silence switch · alarm test push-button
Controls & Indicators	Two 3-position pump selectors (AUTO / OFF / ON) · pump run indicators
Enclosure	NEMA 4X polycarbonate · 10.3" W × 13.28" H × 5.8" D · mounting 11.32" · lockable · –10 to 60 °C
Field Wiring	Copper, 60 °C min · terminal torque 4.425 in-lbs (0.50 N·m)
Compliance	UL 508A Listed · File E547664 · NFPA 70 (NEC)

FLOAT SYSTEM & OPERATION

Three floats govern operation, escalating from timed dosing to continuous run to dual-pump high-water response. Automatic lead/lag alternation occurs at the completion of each cycle.

FLOAT	FUNCTION	POSITION / EFFECT
Timer Enable (N.O.)	Activates the E1ZI10 asymmetrical timer	Lowest — starts the timed dosing cycle for the lead pump
Override (N.O.)	Bypasses the timer for immediate run	Middle — runs the lead pump continuously during high inflow
Alarm / HWLA (N.O.)	Alarm + high-water lag activation	Highest — red beacon, horn, and R1 relay run BOTH pumps



HIGH WATER RESPONSE High water does not stop pumping — it escalates it. The R1 relay brings the lag pump online so both pumps run together while the red beacon and horn annunciate.

PROGRAMMING REFERENCE Step-by-step TELE E1ZI10 timer and E1ZMLA10 alternator programming — with QR links to the official manufacturer data sheets — is provided in Section 6 of the CP-001-6-0002/0004 Operation Manual v2.0.

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
- Field-supplied main disconnect required; verify with a voltage tester before opening
- Single feed powers the entire panel — feeder protection field supplied, 50 A breaker recommended
- Grouping pin installed = 120 V; removed = 240 V — verify before energizing
- LE-6004 includes all three floats · LE-6002 is panel only (floats by others)
- Any alteration, modification, or unauthorized repair voids the UL listing and warranty
- See CP-001-6-0002/0004 Operation Manual v2.0, Line Drawing v1.1, and Connection Diagrams (120 V / 240 V)