

Simplex Time Dose Pump Control Panel

120/240 VAC · Field Selectable | Cyclic Time-Dose · 3-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 cyclic time-dose pump control with dual-voltage flexibility — 120 or 240 VAC, field selectable by Quick Change Grouping Pin — in a Type 4X indoor/outdoor enclosure. LE-4002 supplies the panel only; LE-4004 includes the float switch set.

PART NUMBERS	CP-001-4-0002 & 4-0004	RETAIL MODELS	LE-4002 (panel only) · LE-4004 (with floats)
UL FILE NUMBER	E547664	DOCUMENTATION	Manual v3.2 · Line Drawing v2.8 · Connection Diagram v2.3
TIMER	Elko CRM-2H_UNI	SPEC VERSION	2.2 · August 2026

Key Features

- Dual voltage — 120/240 VAC, field selectable via Quick Change Grouping Pin
- 3-float time-dose control — On (timer enable) · Override · High Water
- Elko CRM-2H_UNI — asymmetrical timer for cyclic dosing
- On/Off logic relay (T1) — pump switching with IEC installation contactor
- Protection — 25 A MCB for pump · 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 — 120/240 V VOLTAGE SELECTION

Ships configured for 120 V with a grouping pin between Terminal 2 and Neutral — remove the pin for 240 V and verify with a multimeter before energizing. A neutral is required even at 240 V — the alarm and control devices operate at 120 V.

TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATION
Part Numbers / Compliance	CP-001-4-0002 & CP-001-4-0004 · 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 · single feed
Control Type	Time-dose (cyclic timing) — 3-float control + Elko CRM-2H_UNI asymmetrical timer
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

In AUTO mode, the On Float enables timed dosing. The Override Float provides extra capacity during high inflow by bypassing the timer. The High Water Float is for alarm notification only.

FLOAT	FUNCTION	POSITION / EFFECT
On Float (Timer Enable)	Activates the asymmetrical timer	Lowest — starts the timed dosing cycle
Override Float	Bypasses the timer for immediate run	Middle — forces continuous pumping during high inflow
High Water Float	Alarm activation only	Highest — alarm only; no pump control

PRODUCT DIMENSIONS

PANEL MODEL	OVERALL W	OVERALL H	DEPTH	MTG. W × H
CP-001-4-0002	10.3"	13.28"	5.8"	5.49 × 11.32"
CP-001-4-0004	10.3"	13.28"	5.8"	5.49 × 11.32"

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

PROGRAMMING Step-by-step Elko CRM-2H_UNI timer programming (P1–P4 potentiometers, ranges, and worked examples) is provided in Section 6 of the Operation Manual, and in the separate Legacy Controls CRM-2H Quick Programming Guide supplied with this panel.

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
- **Floats** — all floats normally open (NO) type
- **Neutral** — required even at 240 V — the alarm and control devices operate at 120 V
- **Alterations** — any alteration, modification, or unauthorized repair voids the UL listing and warranty
- **Documentation** — see CP-001-4-0002/0004 Operation Manual v3.2, Line Drawing v2.8, and Connection Diagram v2.3