

MARSH LCP/®ML4 SYSTEM

The LCP/ML4 System, with new fast-dry inks, printheads and specially designed NEMA 12 rated ink pump assembly and controller; makes coding on non-porous and porous surfaces simple, fast clean and dependable.

Get clear, clean smudge-free marks on virtually all packaging materials. Industries using metal, plastic, poly, woven poly, clay-coat or any of the many other non-porous materials for packaging, save time and coats with the ML4's high-speed application and standard four-

second dry-time. Dry time can be further accelerated by applying heat or air to the coded surface. The same system and the same inks make equally bold marks on porous surfaces with no system changes or adjustments.

As with Marsh LCP Systems, the ML4 is durable and dependable. All electronics are encased in a NEMA 12 rated cabinet for complete protection from the working environment.



Coca Cola uses MARSH LCP/®ML4 SYSTEM on the carton

SPECIFICATIONS

LCP/®ML4

BASIC SYSTEM:

Controller with Hardware.

Input Device (KID, LCP/ID, or terminal with TS-232 port).

Printhead data lines [10' (3.05m) standard, optional length available]

FD Series Printheads

LCP/4FP Bulk 5 Gallon (18.9 liter) or FD Quart Ink System

OPERATING ENVIRONMENT:

Any normal or harsh environments with a temperature range of 40°F (4° C) to 130° F (54.4° C)

ELECTRICAL REQUIREMENTS:

120 volts 60 hertz
110/120 volts 50/60 hertz
100 volts 50 hertz

SENSING DEVICE:

Convergent beam photocell. Retroreflective beam photocell, or Diffuse beam photocell available; 12 volt DC power, sinking transistor output

MOUNTING REQUIREMENTS:

Photocell Mounting Hardware and Controller Mounting Hardware

OPTIONS AVAILABLE:

48k Memory
Thumbwheel Switches
Multi-tasking
shaft Encoder

CHARACTER FONTS:

64 character ASCII set

LCP/®4FP INK SYSTEMS

SYSTEM COMPONENTS:

4FP Pump Assembly (with attached power cord [6' (1.83m)])
Mounting Hardware Kit
Ink system Cap Assembly
Ink Line Kit

ADDITIONAL COMPONENTS:

5 gallon (18.9 liter) Bulk Ink

OPERATING ENVIRONMENT:

Any normal or harsh environments with a temperature range of 40°F (4° C) to 130° F (54.4° C)

ELECTRICAL REQUIREMENTS:

110/120 volts, 50/60 hertz
220/240 volts, 50/60 hertz

INK:

Marsh LCP/FD inks

FD QUART INK SYSTEM:

System Components

FD Quart Ink Restraint
Harsh Environment Air Module
Mounting Hardware Kit
Ink System Cap Assembly
Ink Line Kit

ADDITIONAL COMPONENTS:

Quart (.946 liter) Ink Bottles

FD PRINTHEADS

PRINT HEIGHTS:

713FD Series Printhead: One line of 1/2" (13mm) high characters, 7x5 dot matrix, or one line of 3/8" (8.4mm) high characters, 5x5 dot matrix

720 FD Series Printhead: One line of 3/4" (19mm) high characters, 7x5 dot matrix, or one line of 1/2" (13mm) high characters, 5x5 dot matrix

1632FD Series Printhead: Two line of 1/2" (13mm) high characters, 7x5 dot matrix, or two line of 3/8" (8.4mm) high characters, 5x5 dot matrix or one line of 1-1/8" (29mm) high characters, 14x10 dot matrix

1650FD Series Printhead: Two line of 3/4" (19mm) high characters, 7x5 dot matrix, or one line of 1 11/16" (43mm) high characters, 14x10 dot matrix, or two line of 1/2" (23mm) high characters, 5x5 dot matrix

APPLICATIONS:

The FD Series Printheads are suitable for both absorbent surfaces. They are particularly effective on very high speed conveyors and on tough-to-mark surfaces.

INK:

Marsh LCP/FD Inks (Black, Blue, Red)

OPERATING ENVIRONMENT:

Any normal or harsh environments with a temperature range of 40° F (4° C) to 130° F (54.4° C).

PRINthead DATA LINES:

10' (3.04m) standard length, optional lengths available

MOUNTING REQUIREMENTS:

Printhead Mounting Hardware

CONVEYOR LINE SPEEDS:

FD Printhead Series	Maximum Line Speed
713	206 ft./min. (63 m/min.)
720	328 ft./min. (100 m/min.)
1632	206 ft./min. (63 m/min.)
1650	328 ft./min. (100 m/min.)

Shaft encoder required for variable speed, stop / start applications, and line speeds less than 20 ft./min. (6 m/min.).



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