

CITRONIX ci1000

Citronix continuous ink jet printers provide high speed, reliable, non-contact printing for applying sell-by dates, and lot / date codes to almost any kind of material or surface including metal, glass, plastic, paper, wood and more.

The ci1000 system prints up to four lines of high quality text, and graphics. Print heights range from .06" (1.5mm) to .50" (12mm) providing the ability to print both small characters and large, bold characters. Fast-drying inks with strong adhesion properties provide excellent print quality at speeds up to 1000 feet / minute (304 meters / minute).

The state-of-the-art single board electronics technology coupled with integrated smart printhead and ink system components combine ease of use and reliability. The system is programmed by a user-friendly icon-based operating system and can store up to 1000 messages for simple recall during product changeovers. Critical operating functions and routine service procedures are controlled automatically.



OPERATING FEATURES

- **Intuitive User Interface**—WYSIWYG message editing combined with graphical icon based operation and full size QWERTY keyboard assures effortless operation
- **Automatic Operation**—Minimal need for user intervention through automatic start / stop functions, automatic printhead cleaning, and automated service procedures
- **Instant Dry Printing**—Instantaneous dry times on virtually any substrate
- **Self Diagnostics**—Automatic diagnostics monitor system components to adjust operating settings to maintain print quality
- **Affordable Operating Costs**—Integrated condensing system assures ink is used for printing

Citronix printing systems are suited for use in a wide range of industries including Food, Beverage, Paper, Household, Confectionary, Bakery, Pharmaceutical, Automotive, Lumber and Postal.

DESIGN FEATURES

- **Single Board Design**—State-of-the-art surface mount electronics technology
- **Industrial System**—Rugged stainless steel enclosure, NEMA 4 (IP65) based design allows operation in the most demanding industrial applications, including wash-down environments
- **High Dust Operating Environments**—For the most demanding industrial environments, a positive air kit is available to ensure dust and debris does not enter the printing system
- **Modular System**—Easy access and quick service to all field repairable components, including printhead, ink system components and electrical components
- **Connectivity**—Real time connectivity and control via integrated high speed Ethernet communications and RS232/RS485 serial ports

Print permanent lot, date, or batch codes on virtually any substrate with immediate dry times.



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CITRONIX ci1000

Controller

Hardware

Single Printhead Control
 Dual Processor: Motorola ColdFire / DSP
 Speed: 66Mhz
 Memory: 16MB Flash
 16MB RAM

Interface and Connections

1 Ethernet (10 / 100MB)
 1 RS232 or RS485 (38.4K, up to 115.2KB)
 1 USB

Inputs (Opto Isolated, open collector or TTL Type)
 2 Photocell 1 Shaft Encoder 4 Programmable

Outputs: Ink Low Alarm (open collector)
 Programmable Dry Contact Relay
 External Power (+12VDC 500mAmp)

Printhead: Umbilical (options available upon request)
 9 Feet (3 Meter)

User Interface

Integrated Full-Size QWERTY Keyboard
 Quarter VGA Backlit Graphical Display
 Intuitive Icon Based Operation
 WYSIWYG Message Editing
 Dynamic Message Storage (up to 1000 Messages)
 Single Button Start and Stop Operation
 Multiple Password Security Levels
 Real Time and Date
 Shift and Rollover Functions
 Product and Batch Counting
 Graphic Creation and Printing
 Automatic Diagnostics and Troubleshooting
 Error and Activity Logs
 Service Reminders
 Backup / Restore Functions
 Multiple Operator Languages
 Downloadable Software Updates

Operating Environment

Temperature: 35° - 100°F (5°C - 45°C)
 % Relative Humidity: 10-90% (non condensing)

Electrical Requirements

Auto Ranging: 90 - 260 VAC, (3 Amp)
 Frequency: 50-60Hz

Printhead

Technology: Continuous Ink Jet (CIJ)
 Image Height: .5" (12mm)
 Vertical Resolution: up to 50DPI
 Horizontal Resolution: 5 - 100 DPI
 Print: Text, Graphics, Bar codes
 Lines of Print: 1 - 4
 Line Speed: 1000 ft/Min (304 M/Min)
 Throw Distance: 1" (25mm)
 Printhead Orientation: Omni Directional
 Automatic Maintenance and Cleaning

Consumable and Delivery

Capacity: Makeup - 64 oz (1.9L)
 Ink - 64 oz (1.9L)
 Ink and Makeup Bottle: 16 oz (473ml)
 Ink Dry Times: Immediate
 Ink Colors: Black, Red, Blue, Green
 Ink Types: Full Range of Inks

Physical Characteristics

Enclosure: Stainless Steel
 Environmental: Nema 4 (IP65)
 Weight: Controller - 37 lbs (17 kg)
 Printhead - 2 lbs (.90 kg)

Dimensions:

Controller-	Height	Length	Width
	13.5" (343mm)	16" (406mm)	14" (356mm)
Printhead -	Height	Length	Width
	1.5" (38mm)	9.5" (241mm)	1.3" (33mm)

Optional Accessories

Alarm Beacons Photocells
 Bench Mountings Shaft Encoders
 Floor Mountings Positive Air Kit

By request, Citronix can adapt hardware and software to meet specific application demands.



Full range of accessories to complement the use of a ci1000 system



Full range of inks to meet specific marking requirements



Fill the ci1000 with ink and makeup cleanly and simply



Print with one, two, three or, four lines of print



Print in any orientation