THERMAL/THERMAL TRANSFER BAR CODE PRINTER

RING 4012 PMH

HIGH PERFORMANCE

HEAVY DUTY PRINTER

- ■ HIGH PERFORMANCE, RELIABLE AND DURABLE
- ■ RIDGED STEEL CABINET
- ■ 300 DPI, 8 INCH/SEC.
- ■ HIGH SPEED PROCESSING BY 32 BIT RISC CPU
- ■ 16MB SDRAM & 4MB FLASH MEMORY
- ■ PEEL OFF MODE AS STANDARD
- ■ LABEL MAKING SOFTWARE & WINDOWS DRIVERS
- ■ VARIOUS OPTIONS

RING 4012PMH SPECIFICATIONS

PRINT METHOD
- Thermal Transfer/Direct Thermal
- Harmonic (History Control Print head)

MEDIA TYPE
- Die cut labels
- Butt cut labels tags
- Tag stock
- Roll stock (continuous s/o die cuts)
- Fan Fold

PRINT WIDTH
- 4.25" / 108 mm

MEDIA WIDTH
- 1"/15 mm to 4.5" / 116 mm

MEDIA THICKNESS
- .0025" to .0100" / .0635mm to .254mm

CABINET
- All steel cabinet

LABEL ROLL
- 8" / 210 mm maximum diameter
  (6" / 150 mm max. for I. Rewinder)

RIBBON ROLL
- 3" / 78 mm maximum diameter

DOT RESOLUTION
- 300 DPI / 11.8 Dot per mm

PRINT LENGTH
- 4.25" * 51" (108 * 1300 mm)

PRINT SPEED
- 1"- 8"/sec. (15 mm – 200 mm/sec.)

BAR CODE
- Code 39, Code 93, Code 128, NW7, 2 of 5 (Industrial, Matrix and interleaved), EAN-JAN 13/8, UPC-A/E, EAN128 QR Code, PDF417, Data Matrix, Maxi Code

MEMORY
- 16MB SDRAM
- 4MB Flash memory
  (Up to 16MB as option)

LCD DISPLAY
- 2 lines by 16 characters (Alpha / Numeric)
- Back Light

SENSORS
- Ribbon sensor (Reflective method)
- Label sensor (Transmit method)
- Home position
  (Transmit-Auto calibration method)
  (Reflective sensor as option)

SOFTWARE
- Bartender Ultra Lite Plus
- Windows Drivers

FONTS-CHARACTER SIZE IN DOTS
- 8 Character Sets (Alpha/Numeric and symbols) 8*8, 12*12, 16*16, 16*24, 24*24, 24*26, 32*40, 48*60
  Expansion is 1-10 and 16 times
  (Both directions)
- 5-OCRB Character Sets
  (4 Numeric and 1 Alpha/Numeric)
  Numeric – 16*18, 24*27, 32*36 and 40*45
  Alpha/Numeric – 32*32
  NOTE : Should Not Expand
- Scalable Smooth Fonts (Bitstream Swiss 721) Programmable
  32-720 Dot width
  32-720 Dot length
  Italic Slant Programmable 10, 15 and 20 degrees. NOTE : 8-31 Dots printing is available but must be matched properly with speed and media
- Down loadable font.

EXTERNAL CHARACTER BY DOT PROGRAM
- Programable Expansion
  Characters 256 (24X, 24Y)

PRINTING MODES & FUNCTIONS
- Peel off, Tear off (demand type) with label back feed for top of label printing.
- Bach printing (strip-for continuous printing of labels. Can be used with optional External Rewinder)
- Butt cut label printing
  (Requires optional back side mark sensor)

PROGRAMMING LANGUAGE FEATURES
- Advanced Label marking Language-ALL
- ALL commands are all ASCII characters. This allows flexibility with many environments and platforms
- Easy to program and format printing areas
- Pixel programming allows expanded area of up to 4 times
- Four direction print rotation
  (0, 90, 180 & 270 degrees)
- Reverse print and area fill in
- Mirror print
- Half Tones
- Lines, dotted lines, angle lines and boxes
- Bit image data transfer and printing
- Down loadable graphics, text, font and formats to optional memory card
- Character Set (Code page)table
- Serializing (Numeric)
- Time and date (OPT)
- Communication and print functions

ERROR INDICATORS
- Label / Ribbon empty
- Head open
- Communication
- Grammatical
- Parameter
  (Each error is notified by buzzer and LCD)

ADJUSTABLE PRINT FUNCTIONS SELECTABLE TROUGH FRONT PANEL OR BY SOFTWARE
- Print Speed / Energy Settings
- Print Density
- Label Print Position
- Cutting Position
- Thermal Transfer / Direct Thermal
- Test Printing
- Ready / Pause

COMMUNICATION INTERFACE-SELECTABLE THROUGH FRONT PANEL OR BY SOFTWARE
- USB / Parallel (User select)
- RS-232 / to 115,200 baud rate
  Line Control-RS-CS, XON-XOFF, ER-DR
  Stop Bits
  Parity
  Data length

DIMENSIONS
- 8.5"W*12"H*16"D
  220W*300H*405 mm

WEIGHT
- 27.5 lb / 12.5 kg

POWER SOURCE
  Multiple Power Supply
  Industrial Standard
  115 volts +-10% AC 50/60 HZ
  240 volts +-10% AC 50/60 HZ

  Built to UL/CSA safety standard
  and FCC emissions standards.

Environmental
- Operating temperature
  41 to 104 Fahrenheit / 5 to 40 Centigrade
- Relative humidity below 85% Non-condensing
- Ventilation : Air Movement
- Dust : Non-Conducting, Non-Corrosive

OPTIONS
- Cutter (For thin label)
- Cutter (For thick label)
- Reflective Sensor
- Print Format Resister
- Font memory (8, 12, 16MB)
- Internal Rewinder
- LAN Interface
  100 Base – TX/10Base-T
  (TCP/IP Protocol)
- USB
- Verifier for Barcode
- Verifier for 2D Code

APPROVALS
- FCC Class A ; U/L ; TÜV ; CE

RING