



MODEL GSP-1086 SERIES GRAY SCALE PRINTER



The EPC Model GSP-1086 is an all purpose, continuous image printer. Photographic quality images are printed using a 2048 pixel thermal printhead with a dot density of eight dots/millimeter. Pixel depth is selectable up to eight bits.

Two LCD displays and a sealed membrane control panel provide the operator with a simple user interface which displays system status at all times. Because the control panel is software defined, the printer can easily be configured for a wide range of custom applications.

Sonar and imaging applications are easily accommodated by the 1086's standard interface suite: Dual Channel Analog, Centronics Compatible Parallel, and RS-232 Serial I/O.

Keeping with EPC tradition, the 1086 is packaged in a rugged, field-ready sheet metal case. An optional transport case and rack mount kit are available for ship-of-opportunity and fixed based operations, respectively.

The 500 Series incorporates exciting new features like Bandpass Filtering and Time Varied Gain. Data throughput, system diagnostics, and reliability have also been improved in the 500 Series. A mini keyboard, tie-down loops and enhanced documentation are included.

HARDWARE

Host Processor

486DX2 /66 MHz

CPU Bus

16 Bit Industry Standard Architecture (ISA)

Control Panel

Sealed membrane type, software defined

Displays

Twin 2x40 LCD displays with LED backlights

POWER

Power Supply

350 Watt, auto-sensing, universal input

84-265 VAC, 50-60 Hz

Power Consumption

80 Watts non-printing

130 Watts Peak

PHYSICAL

Dimensions & Weight

17.6"W x 19.3"H x 6.7"D

50 LBS.

Media

Heat sensitive thermal paper or high grade plastic film - 23dB dynamic range

Paper Length: 150 feet

Film Length: 130 feet

Temperature (non-condensing)

0°C to 65°C - Operating

-28°C to 65°C - Storage

PRINTING

Gray Levels & Resolution

Selectable: 8, 16, 32, 64 Levels

Printhead: 2048 Pixels @ 203 DPI

Maximum Line Speeds (nominal)

@ 8 Shades: 15 ms

@ 16 Shades: 18 ms

@ 32 Shades: 26 ms

@ 64 Shades: 43 ms

Chart Speeds (Lines Per Inch)

Fixed: 75, 80, 100, 120, 150, 200, 240, 300

Variable: 1.6 kHz max clock, BNC input

1 / 1200th inch per clock

Warranty: One Year Limited Parts & Labor.

ANALOG INTERFACE

Dual Signal Input

0V to 10V SIGNAL BNC inputs

(2KW Input Impedance)

External Trigger Input (slave)

TTL EXT TRIG BNC input with slope sense

Internal Key Output (master)

TTL KEY OUT BNC with polarity selection

(62.5us pulse width)

Gain, Threshold, Polarity

Independent controls for each channel

Minimum printable signal 150 mV

Time Bases

1.5 MHz A/Ds with 8 Bit resolution

Scan - 5 mS to 10 secs, 1 ms resolution

Key - 5 mS to 10 secs, 1 ms resolution

Delay - 0 sees to 8 secs, 1 ms resolution

PARALLEL INTERFACE

Interconnect

25 Pin Sub D, metal shell

Data Input (Pins 2-9)

Eight Bit Centronics Compatible

2048 bytes per raster line

White = 0X00; Black = selectable

Handshake

Low Active host/STB on Pin 1

Low Active printer/ACK on Pin 10

High Active printer BUSY on Pin 11

BUSY cycles on end of line (2048 bytes)

/ACK cycles on every /STB

Burst Rate Bandwidth: Over 250 kHz

Sustained Bandwidth: Based on gray levels

COMMAND INTERFACE

QWERTY Keyboard

Jack for commands and annotation

RS-232 Serial Data Input (DCE)

9 Pin Sub 'D' for commands & GPS

NEW FEATURES

Time Varied Gain

255 Logarithmic curves to choose from.

Band Pass Filtering

LOW PASS: 1kHz, 1.2kHz, 2kHz, 2.4kHz, 3kHz,
4kHz, 6k and 12kHz

HIGH PASS: 83Hz, 100Hz, 166Hz, 200Hz, 250Hz,
333Hz, 500Hz and 1kHz.

Specification subject to change.

