MODEL 1086NT Series 2000
THERMAL NETWORK PRINTER

The EPC Model 1086NT is latest advancement in thermal printing technology. Building on EPC's proven GSP-1086 architecture, the 1086NT integrates networking capabilities for data input and output, and remote control applications.

Configured as TCP/IP host, the recorder exposes a simple socket interface to receive data and commands over a LAN or Internet connection. Full access to the unit's vast command set is provided through a high-level programming interface (API). This greatly reduces system interfacing costs by giving the system integrator an out-of-the-box solution that takes hours to implement instead of days.

As a client, the 1086NT easily connects to Windows[tm] based networks to log digitized data to a server's disk. A simple playback mechanism then allows the user to review any part of the previously collected data set — with or without fixes, events, and annotation. The XTF file format ensures compatibility with all modern processing systems.

Like its predecessor, the 1086NT also interfaces to virtually any analog based system. With signal processing features such as slant range correction, TVG, and bandpass filtering, the unit is a total real-time data acquisition solution. Include the high speed parallel interface and the integrated NAV input, and there is simply no printer in the industry that has this much capability.

HARDWARE

Host Processor
Pentium Class
CPU Bus
PC/104 Bolt-down
Control Panel
Sealed membrane type, software defined
Displays
Twin 2x40 LCD displays with LED backlights

POWER

Power Supply
400 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^oC to 65^oC - Operating
-28^oC to 65^oC - Storage

PRINTING

Gray Levels & Resolution
Selectable: 8, 16,32, 64 Levels
Printhead: 2048 Pixels @ 203 DPI
Chart Speeds (Lines Per Inch)
Fixed: 80, 100, 120,150, 200, 240, 300
Variable: Speed Correction input from
GPRMC GPS string.

SIGNAL PROCESSING

Time Varied Gain
100 Logarithmic curves to choose from
Band Pass Filtering
Low Pass: 1 kHz to 25 kHz
High Pass: 40 Hz to 1 kHz
Slant Range Correction & Bottom Tracking

ANNOTATION

128 Character ASCII Alphanumerics
Automatic or manual fixes, messages and events
    based on line intervals
Automatic annotation feature on settings changes

Warranty: One Year Limited Parts & Labor.

ANALOG INTERFACE

Dual Signal Input
-10V to 10V SIGNAL BNC inputs
(2KΩ 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
(256us pulse width)
Gain, Threshold, Polarity
Independent controls for each channel
Minimum printable signal 150 mV
Time Bases
560 kHz A/Ds with 16 Bit resolution
Scan - 5 mS to 10 secs, 1 ms resolution
Key - 5 mS to 10 secs, 1 ms resolution
Delay - 0 secs 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
Burst Rate Bandwidth: Over 1 MHz
Sustained Bandwidth: Based on gray levels

ETHERNET INTERFACE

Interconnect
RJ45 10/100 front panel connection
Data Input
High-level Socket Interface with API provided,
    TCP/IP Protocol

COMMAND INTERFACE

QWERTY Keyboard, Socket, or RS-232 with selectable
    Baud Rates (DCE, Null Modem Required for PC Conn.).
All panel functions remotely accessible
On-line help facility prints command set

*Specification subject to change.