



High Performance Thermal Printers/Plotters

WITH USB AND ETHERNET INTERFACES

Multiple Models & Configurations

- 8 inch and 12 inch print widths
- 2 inches per second and 4 inches per second plot speed
- 200 dots per inch and 300 dots per inch print density
- Desk top models
- Rack mount models
- Panel mount models

Rack mount and desk top configurations are offered in the eight inch width models making these plotters equally at home in the logging truck or in the analyst's office. Panel mount versions for installation into the system cabinet are available for the 822 DL/G and 823 DL/G. The 1242 DL/G is available only as a desk top configuration.

New Connectivity Options

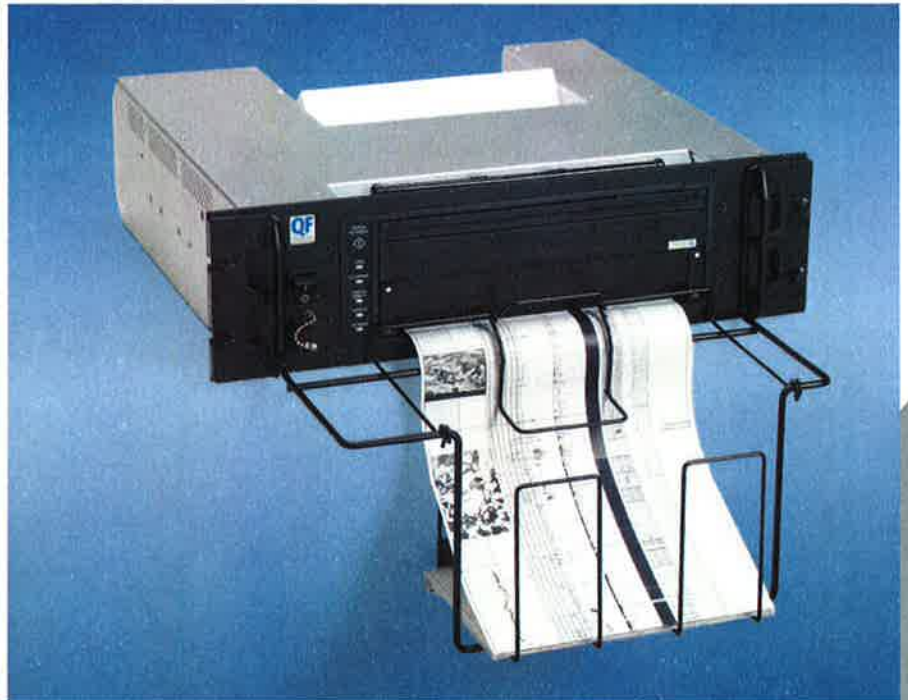
All models have both USB and Ethernet interfaces ready for direct connection to the network and allowing local connectivity at the same time through the USB interface.

High Resolution Plots

The 823 DL/G and 843 DL/G offer 300 x 300 dots per inch plot density resulting in a 225% increase in areal density producing plots with unparalleled image quality. The other models are all at 200 dots per inch.

Field Upgradeable Firmware

Embedded printer software can be upgraded via the USB port. Rack mount units have connectors on both the front panel and the back of the chassis so the USB interface is available without pulling the printer from the rack. This DFU (Device Firmware Upgrade) capability allows easy program updating.



Model 843 DL/G rack mount printer/plotter with optional paper stacker.

Automatic Calibration of Forms Mark Sensor

The control electronics automatically recalibrates the TOF (Top of Form) sensor so manual recalibration is not required.

Automatic Speed Adjustment

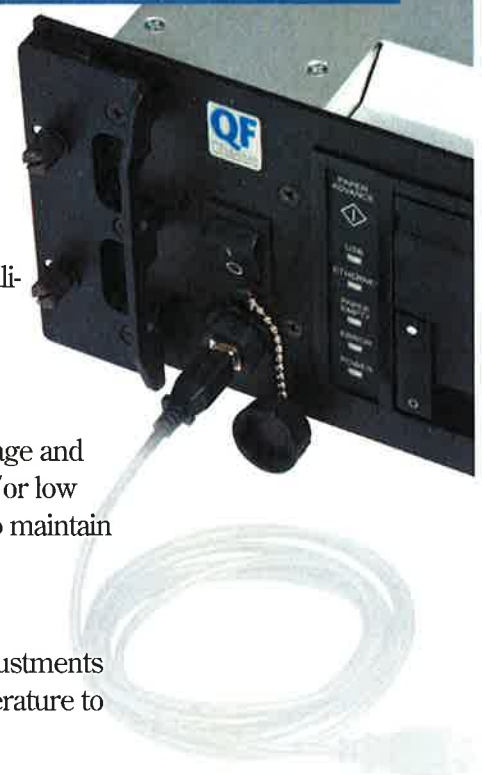
The printer controller monitors head voltage and head temperature and at low voltage and/or low temperature may reduce the plot speed to maintain good image quality.

Print Darkness Compensation

The printer control electronics makes adjustments for voltage levels and thermal head temperature to maintain consistent print darkness.

Front Panel Indicates Operational Status

Activity on the USB bus or the Ethernet bus is indicated on the front panel providing immediate visual confirmation of connection and bus activity.



QF Chassis for Forms Handling Flexibility

QF means Quadriform which is marketing speak for four different ways to handle paper. It is standard in the rack mount configurations.

- Standard internal rolls of paper or film.
- Stack of fan fold paper below the printer.
- 800 sheet stack of API format (6 ¼ inch page length) paper behind the print engine.
- Five-inch diameter roll of paper or film mounted behind the print engine.

DLA (Depth Line Accuracy)

Because there are variations in frictional and mechanical characteristics of paper and film, platen surface and diameter and because of wear, there is a control, managed through the print driver, to keep plot length to scale.

RLE Decompression

Maintains plot speed by reducing bandwidth requirements of the interface. This feature is particularly helpful when printing gray scale images.

Gray Scale Printing

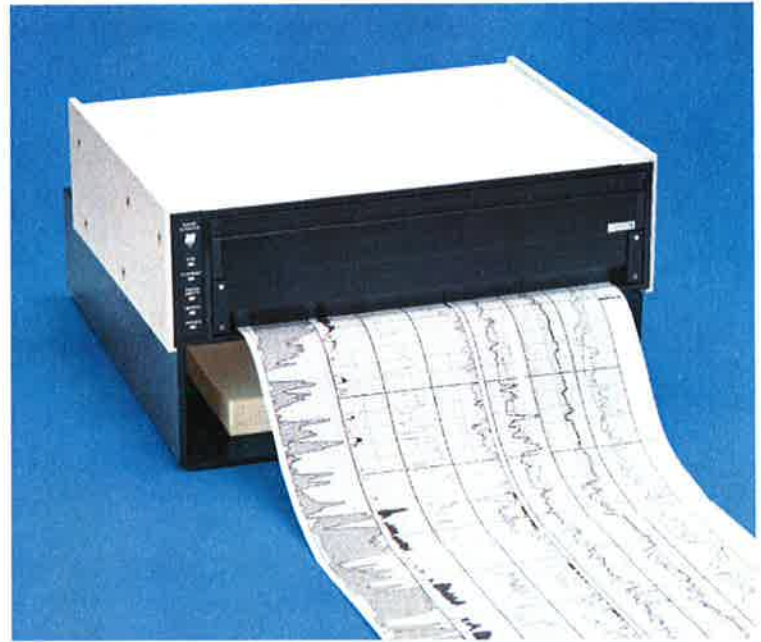
All models in this product family can print 32 levels of gray. This is indicated by the “G” in the suffix to the model number.

Fan Fold Paper

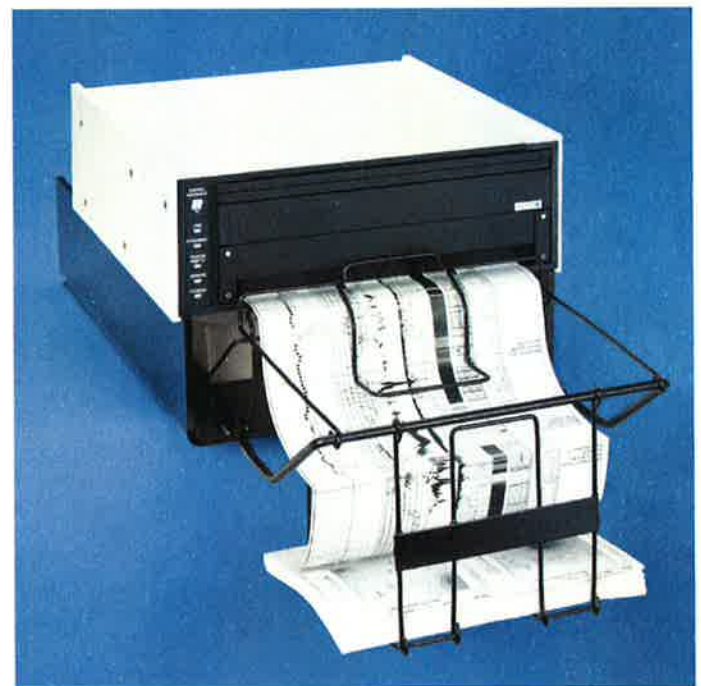
All models have the capability to recognize a Top of Forms mark. However, the 822 G and 823 G do not have an access path for an external paper supply so they can handle only regular rolls of paper or fan fold paper that has been rewound onto a roll. The DL in the model number suffix indicates the printer can handle fan fold forms from an external supply.

Output Stackers for API Format Paper

Optional output stackers for the 8-inch width units are available. The desk top configuration has a combination input tray and output stacker. The rack mount units have output stackers only. A paper input tray without the stacker is also available for both 8-inch width and 12-inch width desk top printers.



Model 1242 DL/G desk top printer/plotter with optional paper input tray.



Model 843 DL/G with optional paper input/stacker assembly.

Printer Drivers

Print Drivers can be downloaded from the Support page on the Printrex web site www.printrex.com. See the web site for the Windows versions that are supported.

Interfaces

USB 2.0 Full Speed and 10/100 Base T(X) Ethernet using TCP/IP Protocol.

Power Requirements

Universal Input Power Supplies
100 to 240 VAC, 50/60 Hz

Models 822 G, 823 G, 822 DL/G, 823 DL/G
240 watts maximum

Models 842 DL/G and 843 DL/G
500 watts maximum

Model 1242 DL/G
800 watts maximum

Panel Mount Configurations: +24 VDC

Media Specifications

Media Dimensions: Paper and film have same mechanical requirements.

Internal Roll

- 2.6 inches (66 mm) maximum OD
- Core ID 0.5 inches (12.7 mm)
- Width 8.75 inches (222 mm)
- and 12 inches (304 mm)

External Roll on QF Chassis

- 5 inch (127 mm) maximum OD
- Core ID 0.5 inches (12.7 mm)

Stack height on QF chassis 5 inches (127 mm)

Stack height for external is unlimited

Regulatory

Emissions: EN 55022:1998 Class A, A1:2000, A2:2003

Immunity: EN 50024:1998, A1:2001, A2:2003

Safety: EN 60950-1:2001, A11:2004

FCC Class A, Part 15

Environmental

Operating Temperature: -10°C to +50°C (14°F to 122°)

Storage Temperature: -40°C to +60°C (-40°F to 140°)

Altitude: Maximum 12,000 feet (3,657 meters)

Dust, spray and splash: IP54

Vibration: MIL STD 810F method 514.5, Fig 514.5C1

Shock: 20g peak 1/2 sine wave @ 11 ms, 30 impacts

Flammability: UL94HB

Optional Accessories for API Format Paper

Output stacker for rack mount printers

Combination Input tray/output stacker for 8-inch width desk top printers

Optional Accessories for Other Paper

Input tray for 8-inch width printers

Input tray for the 1242 DL/G

PRINTER SELECTION GUIDE

| Model | Plot Speed | | Dot Density H & V | | Line Length | | |
|------------------|------------|--------|-------------------|---------|-------------|-----|-----------|
| | Inches/Sec | mm/Sec | Dots/Inch | Dots/mm | Inches | mm | Dots/Line |
| 822 G | 2 | 50 | 203 | 8 | 8.5 | 216 | 1,728 |
| 823 G | 2 | 50 | 300 | 11.81 | 8.5 | 216 | 2,560 |
| 822 DL/G | 2 | 50 | 203 | 8 | 8.5 | 216 | 1,728 |
| 823 DL/G | 2 | 50 | 300 | 11.81 | 8.5 | 216 | 2,560 |
| 842 DL/G | 4 | 100 | 203 | 8 | 8.5 | 216 | 1,728 |
| 843 DL/G | 4 | 100 | 300 | 11.81 | 8.5 | 216 | 2,560 |
| 1242 DL/G | 4 | 100 | 203 | 8 | 11.6 | 296 | 2,368 |

PHYSICAL CHARACTERISTICS

| | Dimensions H x W x D | | Shipping Weight | |
|-----------------------------------|----------------------|--------------------|-----------------|-----------|
| | Inches | Centimeters | Pounds | Kilograms |
| 8-inch width printers | | | | |
| Panel Mount | 4.1 x 11.9 x 4.97 | 10.4 x 30.2 x 12.6 | 7 | 3.2 |
| Desk Top | 4.87 x 12.3 x 12.0 | 12.4 x 31.2 x 30.5 | 21 | 9.5 |
| Rack Mount | 5.25 x 19 x 16.12 | 13.3 x 48.3 x 41 | 22 | 10 |
| 1242 DL/G Desk Top printer | 4.87 x 15.6 x 12.0 | 12.4 x 39.6 x 30.5 | 22 | 10 |