PRINTREX

High Performance Printers/Plotters

FOR DATA LOGGING APPLICATIONS

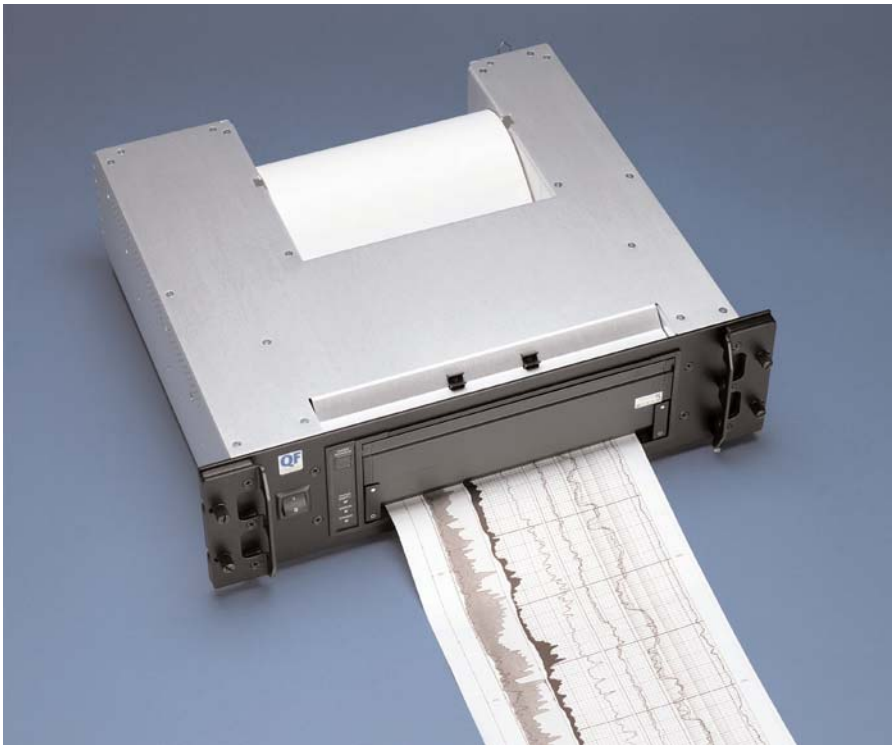
Broad Product Line

New products and new features mean that Printrex plotters continue to offer the widest range of performance and configurations for the data logging industry. From the new, basic 810 to the very high performance 840 DL/G, Printrex has a product to meet the requirements and the cost objectives of every logging system. The rugged reliability, superior paper handling and very effective price/performance ratio have made Printrex the most popular plotter for data logging applications all around the world.

Multiple Configurations

The 810, 820 G and 820 DL/G are available as panel mount units, desk top printers or rack mount configurations. The 840 DL/G is available in desk top or rack mount configurations while the 1200 DL is a desk top unit only.

All models can use an internal roll of thermal paper or transparent thermal film with a maximum diameter of 2.6 inches (66 mm). Models with a DL or DL/G suffix can also handle fan fold paper.

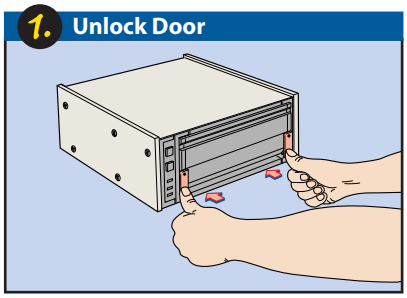


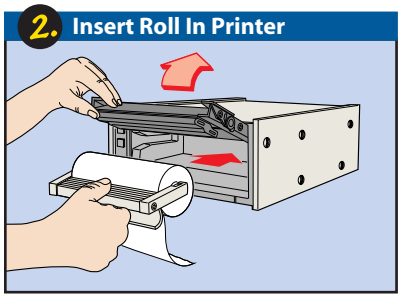
840 DL/G in QF Chassis with 5 inch diameter roll installed.

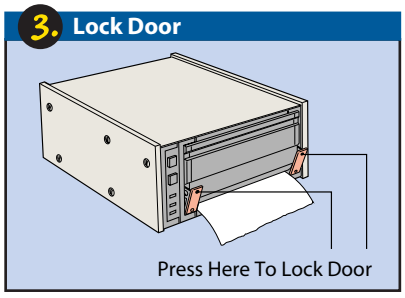
QF Chassis for Forms Handling Flexibility

QuadriForm Paper Handling is available with the rack mount versions of the 820 DL/G and 840 DL/G and gives the user four options for handling media. And it all fits in the 3U (5 ¼ inch) rack height of the standard chassis.

- Standard internal rolls of paper or film.
- Stack of fan fold forms stored below the printer.
- Five inch high stack of fan fold forms stored behind the printer mechanism.
- Five inch diameter roll of paper or film mounted behind the printer mechanism.

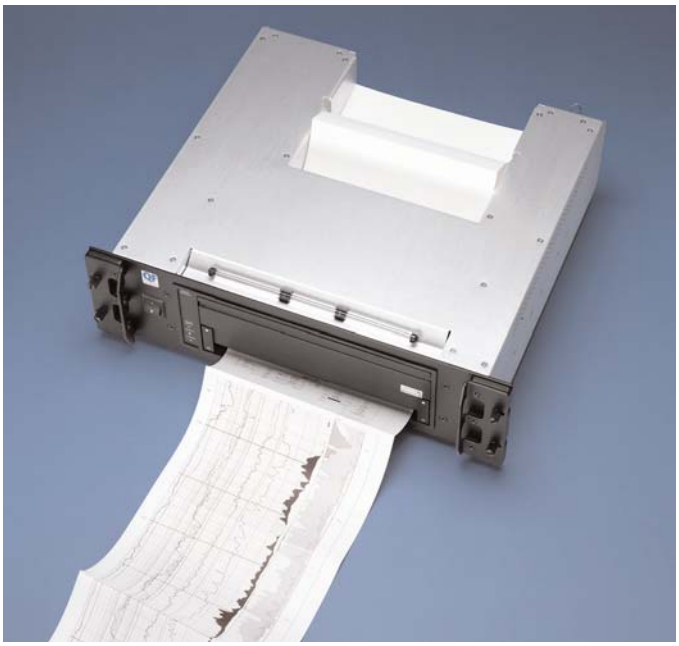






Load Paper Without Threading or Alignment Printrex products feature an innovative paper handling system that permits the user to reload paper in seconds without any threading or alignment. The operator simply inserts the paper carrier, closes the door and is ready to print.

1200 DL Desktop Printer



840 DL/G in QF Chassis with fan fold forms installed.

New Controllers with Enhanced Media Controls

The new controllers for the eight inch wide products have an expanded set of control codes based on those used in the familiar 820/820 DL family while maintaining compatibility with the earlier plotters. These commands along with internal functions permit the printer to be adjusted for optimum performance and print quality over the temperature range and print speeds for the media being used.

Data Rate Tracking - Print speed follows the input data rate to virtually eliminate the effects of start/stop printing.

RLE Decompression - Increases the plot speed by reducing the bandwidth requirements of the interface.

DLA (Dot Line Adjust) - Because there are variations in frictional characteristics of paper and film, platen surface and diameter and because of wear, there is a command to adjust the plot length.

Gray Scale Printing - Those models with a G in the suffix (820 G, 820 DL/G and 840 DL/G) can print 32 levels of gray and have associated commands to adapt to the paper being used.

PRINTER/PLOTTER SELECTION GUIDE

Model	Plot Speed		Gray Scale	Media Capability			Configurations			
	mm/ sec	inches/ sec		Roll	Fan Fold	Trans- parencies	Panel	Desk Top	Rack Mount Standard	Rack Mount QF
810	25	1	N	Y	N*	Y	Y	Y	Y	N
820 G	50	2	Y	Y	N*	Y	Y	Y	Y	N
820 DL/G	50	2	Y	Y	Y	Y	Y	Y	Y	Y
840 DL/G	100	4	Y	Y	Y	Y	N	Y	Y	Y
1200 DL	25	1	N	Y	Y	Y	N	Y	N	N

* The 810 and 820 G do not have a paper entry slot for external fan fold paper but do have the capability to sense a Forms Mark. This permits use of perforated paper that has been rewound onto a roll.

PRINTOUT: ALPHANUMERIC MODE

- 8 inch (203 mm) line length for 8xx models
- 11 inch (280 mm) for 1200 DL
- Character pitches of 10, 12, 16.7 or 20 characters per inch
- 6.25 or 12.5 character lines per inch
- 96 ASCII characters and 128 graphic characters
- Double high and double wide print
- Inverted and reverse image characters
- International character sets

PRINTOUT: GRAPHICS MODE

- 200 x 200 dots/inch or 100 x 100 dots/inch modes (nominal)
- 8 dots/mm (203 dots/inch) Horizontally
- 7.91 dots/mm (201 dots/inch) Vertically
- 1,728 dots/line for 8xx models
- 2,368 dots/line for 1200 DL
- 8.5 inch (216 mm) line length for 8xx models
- 11.6 inch (296 mm) line length for 1200 DL

REGULATORY APPROVALS

Most models carry FCC certification and the CE Mark for EMC and Safety.

Configurations of the 810 for mobile applications are designed to meet the requirements of SAE J1455, Recommended Environmental Practices for Electronic Equipment Design (Heavy Duty Trucks).

They also carry the “e” mark of the EC and are certified under VIDG 5, Class One, the very stringent EMC requirements established by the Home Office in the United Kingdom.

HARDWARE INTERFACE

All models except the 1200 DL have a high speed parallel interface. The 820/840 products support data rates up to 1.2 mbytes/second and the 810 supports up to 500 kbytes/second. The 1200 DL supports compatibility mode parallel at up to 200 kbytes/second.

RLE data compression is also supported for all models except the 1200 DL.

PRINTER DRIVERS

Printer drivers can be down loaded from the Printrex web page for most Windows operating systems.

Unix operation is supported by most of the major suppliers of graphics software for data logging and log analysis applications.

MEDIA SPECIFICATIONS

All printers accommodate a roll of paper or film inside the mechanism with a maximum OD of 2.6 inches (66 mm). The width of media in the 8xx units is 8.75 inches (222 mm) or with a special paper carrier can use 8.5 inch (216 mm) width material.

The QF Chassis also accommodates a 5 inch (127 mm) diameter roll or a 5 inch high stack of API format fan fold paper.

UNIVERSAL INPUT POWER SUPPLY

All models except the 1200 DL have universal input power supply simplifying installations all around the world.

PHYSICAL CHARACTERISTICS

	Dimensions H x W x D		Shipping Weight	
	Inches	Centimeters	Pounds	Kilograms
Panel Mount	4.1 x 11.9 x 4.97	10.4 x 30.2 x 12.6	7	3.2
Standard Desk Top	4.87 x12.3 x 12.0	12.4 x 31.2 x 30.5	21	9.5
Standard Rack Mount	5.25 x 19 x 12	13.3 x 48.3 x 30.5	22	10
QF Chassis*	5.25 x 19 x 16.12	13.3 x 48.3 x 41	22	10
1200 DL Desk Top	4.87 x 15.6 x 12	12.4 x 39.6 x 30.5	22	10

*Dimensions are from back of the front panel. Handles on QF Chassis extend 1 inch from front of the panel.

Mobile Products

Some configurations of the Printrex 810 operate directly from vehicle power sources. They tolerate the wide voltage ranges and electrically noisy circuits typically found in vehicles. They are designed to meet the requirements of SAE J1455, Recommended Environmental Practices for Electronic Equipment Design (Heavy Duty Trucks).

They are “e” marked for vehicle applications in the EC and meet the very stringent EMC specifications of VIDG, Class One for fire, police and emergency vehicles established by the Home Office in the United Kingdom.

Printrex has been producing printers for mobile applications since installing several hundred units in railroad locomotives in 1992. Installations in commercial aircraft began in 1993 and they have been installed in fire fighting vehicles since 1995.

Special Projects

Printrex provides design services for special printer projects. It may involve modifications of existing products to meet application requirements or we may undertake the design of a new printer for applications where a suitable product is not available.

PRINTREX

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