

PDFM 808

Diesel Fuel Injection Measurement System



Features

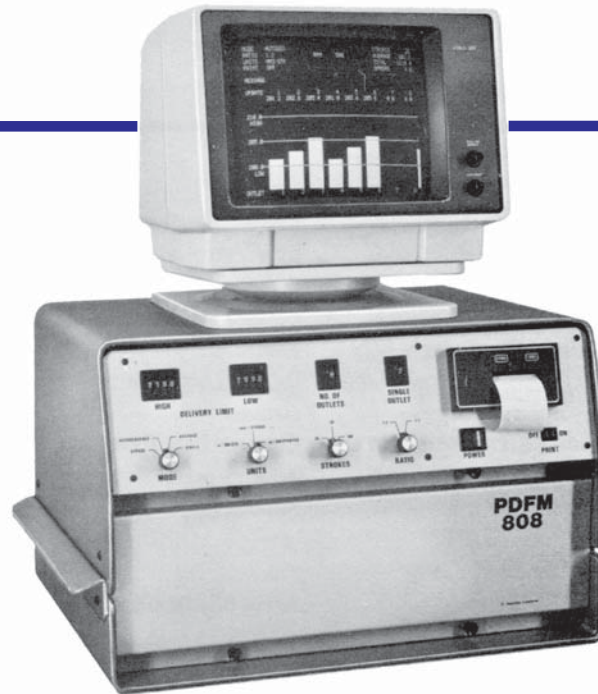
- Numeric and bar graph display of fuel delivery on a 13" CRT screen
- Displays total delivery, average delivery, or individual outlet delivery with automatic sequencing of all pump outlets
- Patented* Positive Displacement Flow Meter
- Tape printout of pump operating parameters with provision for customer documentation
- Swiveling, detachable CRT console allows easy viewing of display from almost any angle
- Allows for simultaneous fuel delivery adjustments
- High and low limits for fuel delivery can be set
- Accuracy of $\pm 0.5\%$ at 150 mm³/stroke
- Adaptable to current calibration stands of all manufacturers
- Updates reading continuously

Description

The Bacharach PDFM 808 Fluid Measurement System with CRT Display measures the fluid delivery of diesel injection pumps. When used with any manufacturer's injection pump calibration stand, the PDFM 808:

- Measures the fluid flow from a single injection pump outlet
- Computes the average fluid delivery from up to eight pump outlets
- Measures the delivery of each pump outlet, in sequence

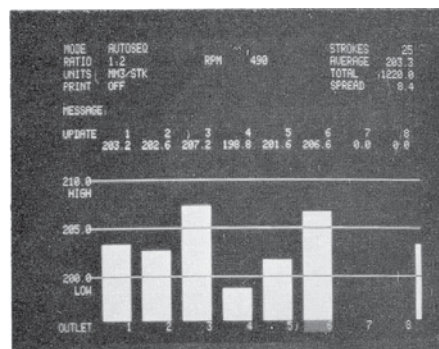
A CRT mounted on top of the PDFM console displays delivery flow values and related data. This includes error messages, to alert you to incorrect switch settings. At your option, a paper tape printer permanently records fluid delivery values as well as pump speed.



Precision equipment is used at the Bacharach factory to fully test:

- The accuracy of the PDFM 808's patented* fluid delivery measurement system
- Operation of the unit's controls, switches, display and printer

The PDFM 808 is easy to install, operate, and maintain. An entirely new concept in diesel fuel system calibration, it offers increased speed, precision, and productivity to diesel test stand users.



CRT DISPLAY

Operation

Prior to performing a test, and after the pump is mounted, the operator selects the operating mode (SINGLE, AVERAGE, or AUTOSEQUENCE) and sets engine/pump parameters on the PDFM 808 operating console. Fluid delivered by the pump is routed through the PDFM 808 and is accurately measured. The CRT displays pump RPM, average outlet delivery, and total outlet delivery in numeric form. Bar graphs represent the flow from a single outlet, average delivery from all outlets, or sequential delivery from each outlet, depending on the mode selected. Readings are updated on a second-by-second basis.

When the printer is on, a complete record of flow test data is produced as the test progresses. Fluid delivery values print as they appear on the CRT display.

After completing a test, the operator can repeat the test, switch to another mode and retest, or install another pump and continue testing.

*U.S. Patent Number 4141243

Specifications

Operating Voltage

115 VAC ±15%, 60 Hz;
220 VAC ±10%, 50 Hz

Input Signal Source

- (a) Magnetic Pickup, Bacharach
P/N 67-6258
- (b) Any 5 VDC pulse

Selectable Pulses/Revolution

60, 120, 180, and 300

Operating Temperature

PDFM 808: 60 to 100 °F ambient
(15.5 to 37.8 °C)
Fluid: 60 to 175 °F (15.5 to 79.4 °C)

Measurement Modes

- (a) Single Outlet: Displays repetitively the delivery of the single outlet chosen
- (b) Average: Displays repetitively the average delivery of all the pump outlets
- (c) Auto Sequence: Displays all pump outlets in sequence

Displays:

Delivery

64 x 24 character CRT

Number of Outlets

1-8

Select Outlets

1-8

Select Strokes

25, 50, 100

Measurement Units

mm³/stroke
cc/300 strokes
cc/500 strokes

Resolution

0.1 mm³/stroke at 50 and 100 strokes

Operating Pressure Range

40-65 psi

Accuracy

±0.5% at 150 mm³/stroke

Miscellaneous:

Outside Dimensions

25"W x 22"D x 31"H
(635 x 559 x 787 mm)

Accessories

Input cable from magnetic pickup,
tubing, quick connects

Ordering Information

77-8025 PDFM 808 for Professional test stand

77-8026 PDFM 808 for Specialist and Technician test stands

77-8027 PDFM 808 for Specialist test stand (w/optical pickup)

77-7070 PDFM 808 console w/monitor only

77-7071 PDFM 808 console w/monitor only; 220V, 50 Hz

Consult factory for other stand applications.

AVERAGE = 101.8

SPREAD = 3.0

6	500	103.0
5	500	101.3
4	500	100.4
3	500	103.4
2	500	101.1
1	500	101.6

OUTLET SPEED FLOW

AUTOSEQ

STROKES = 25
FLOW UNIT=CC/500 STK
OUTLETS= 6
RATIO=1: 2
LIMITS= 40.0 - 193.2

OPERATOR _____
DATE _____
PUMP SER. _____
PUMP TYPE _____
JOB NO. _____

TAPE PRINTOUT



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Leaflet 1101 7/02
Printed in U.S.A.



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