

# DREW™ DPA-EZ PORTABLE ENGINE ANALYZER



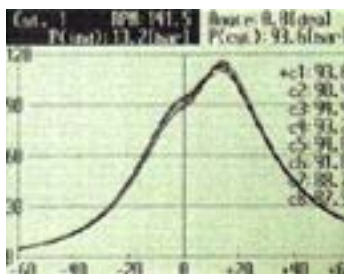
## DESCRIPTION

The DREW DPA-EZ Portable Engine Analyzer offers engineers the ability to obtain diesel engine cylinder pressure measurements and instantaneously calculate key engine operating parameters for balancing and optimizing engine load.

The portable unit is a robust, stand-alone system with a built-in processor for calculation and analysis including the capability to display bar graphs and diagrams. There are no junction boxes or complicated power/signal cabling to install and configure. It offers true portability by using an optical TDC sensor, which can be mounted from engine to engine, site to site whether it be a vessel, power station, or engine test bed.



Large LCD Screen



P-A Diagram

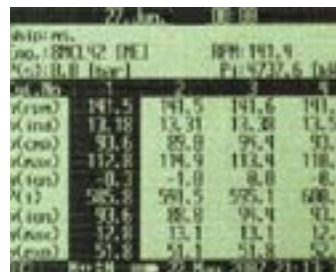
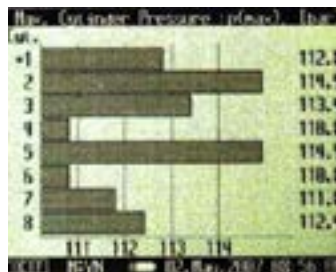


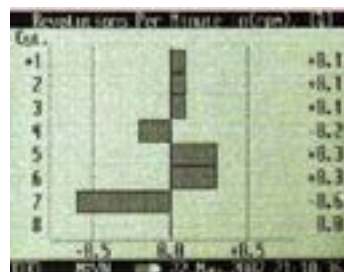
Table Summary



Bar Plot - Menu



Bar Plot - Absolute



Bar Plot - Relative

## FEATURES

- Simple, easy and intuitive user interface.

- Single-action main function keys:

Graph	Bar
Table	Engine
File	Setup
Measure	Mode
Help	



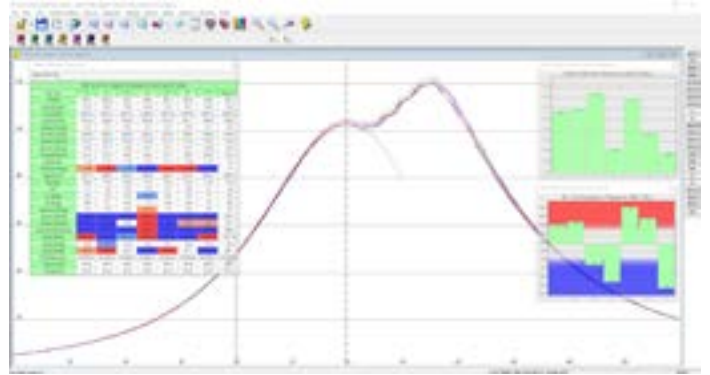
Drew DPA-EZ analyzer shown with Cylinder Pressure Sensor mounted in Thompson Adaptor

- Large LCD screen with large icons (320 x 240 pixels).
- Navigate screen options and entries using directional arrow keys with Yes/No buttons.
- Measure engine using Auto-stop setting.
  - Set to ON - routine scheduled measurements can be consistently obtained using the same number of samples before saving an average reading for analysis later.
  - Set to OFF - live measurements can be obtained while adjusting the engine; suitable for tuning and balancing the engine.
- Analyze measurement data using three formats:
  - Graphs
  - Bar plots
  - Table
  - P-A graph with cursor control and zoom function.
  - Bar plots show absolute and relative values (% deviation) for measured/calculated parameters.
  - Table summary shows measured/calculated numerical values for each cylinder.
- Memory storage capacity of 30 unique engines and 60 measurement records.
- Rechargeable 20-hour battery.



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- Cylinder pressure sensor calibration scheme offers easy annual calibration.
- DREW™ DPA File Viewer allows centralized analysis of unlimited number of engines on a PC.
- Optional DPA signal simulator/calibrator provides ability to check integrity of DREW DPA-EZ analyzer.
- Optional DPA EZ Fuel Option Kit adds ability to record fuel injection events
- Optional TDC pick-up sensors for permanent mounting on 2-stroke and 4-stroke engines.



## BENEFITS

Usage of the DREW DPA-EZ Portable Engine Analyzer depends on the specific requirements, such as the following:

- Stand-Alone System - bring on-site, measure, analyze, carry back (i.e., small engineering service companies that perform engine overhaul, maintenance, inspection, etc.)
- Umpire Unit - used only to check performance of other engine measurement devices (mechanical and electronic).
- Back-up Unit - for use when other measuring devices are off-line being calibrated or repaired.
- Standard Unit - used by an engineer visiting several engine installations to analyze and compare measurements (up to 30 engines).

For all of the above, additional review and analysis can be done centrally with the DREW DPA File Viewer software for an unlimited number of engines and locations from one office PC.

## ORDERING INFORMATION

### PCN

1AA2657  
1AB6155  
1AB6156

### Description

DREW DPA-EZ Portable Engine Analyzer  
DPA Cylinder Pressure Sensor, 6613CP  
Wire Thompson Adapter, 6513A

### Includes

1AA9957  
1AA2727  
1AA9956  
1AA2729  
0124370  
1AA2728  
1AA8165  
1AA9958

DPA-EZ Portable Unit, 1 each  
Extension Cable, 8m  
Optical TDC Sensor, 1 each  
Optical TDC Sensor Holder, 1 each  
Reflective Tape, 1m  
Charger, 1 Each  
Storage Case, 1 each  
DREW DPA File Viewer Software with  
USB Cable

### Optional Upgrades

1AA2629  
1AB1263  
0123836  
0124354

DPA Signal Simulator/Calibrator  
DPA EZ Fuel Option Kit  
DPA Pair of Pick-ups (2-stroke)  
DPA TDC Pick-up (4-stroke)



# Drew Marine

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