

## DESCRIPTION

DREW DPA Diesel Performance Analyzers provide engine operators with a quick and reliable cylinder pressure measurement for essential engine load balancing. DPA Fuel Option Kits are available to expand onboard capability with added fuel injection equipment monitoring to fully realize the benefits from engine condition monitoring.

Suitable for 2-stroke and 4-stroke engines, DPA Fuel Option Kits are available for DPA IV-USB fixed systems and DPA EZ portable engine analyzers. The fuel sensor requires no penetration into the fuel system, which eliminates possible fuel leakage when compared to traditional fuel sensors. Drew Marine utilizes an electromagnetic acoustic emission transducer (EMAT) sensor technology for monitoring fuel injection timing events. A single EMAT sensor offers a more cost-effective option, and an extended life cycle, in comparison to traditional fuel pressure sensors that must be mounted for each fuel pump.



PCN	Description	Comments
1AA2656	DPA Fuel Option Kit <ul style="list-style-type: none"> <li>1x DPA EMAT sensor, 15m</li> <li>1x Fuel Software Interpretation</li> </ul>	Applicable to DPA IV (USB) fixed systems only
1AB1263	DPA EZ Fuel Option Kit <ul style="list-style-type: none"> <li>1x DPA EMAT sensor, 2m</li> <li>1x Fuel Software Interpretation</li> </ul>	Applicable to DPA EZ portable engine analyzer only

## APPLICATION AND USE

The EMAT sensor is dynamically used in conjunction with the cylinder pressure sensor. Once all the cylinders have been measured, the corresponding measurement file (\*.mip) must be sent to [dpasupport@drew-marine.com](mailto:dpasupport@drew-marine.com). Ideally, in order to develop the best possible fuel interpretation software, each engine should be measured, and all engine measurement files should be submitted.

Based on cylinder pressures and raw EMAT readings, Drew Marine will provide customized software that will convert the raw EMAT measurement into a well-defined or interpreted fuel diagram. A link to download the new fuel interpretation (\*.exe)

## FEATURES

- Non-destructive technology (NDT)
- Non-contact electromagnetic acoustic emission transducer (EMAT) sensor technology
- Prepackaged kit includes EMAT sensor and software interpretation development
- Stronger magnet
- Improved sensitivity

## BENEFITS

- No penetration into high-pressure fuel lines
- No grease or couplant is needed for mounting
- Easy-to-use software interpretation identifies key injection timing events
- Easy mounting to injection equipment
- Sensor overcomes excessive engine vibration and limited measurement surface area from partial contact and on curved surfaces



Contact your Drew Marine representative for more information

program will be sent via email.

The fuel interpretation program is used when interpreted fuel diagrams are being analyzed. To view raw fuel readings, the original DPA software program must be used. The combination of both views allows full flexibility in analyzing and troubleshooting engine and fuel injection conditions.

The fuel interpretation diagram identifies key fuel injection timing events vs. crankshaft angle. The interpreted diagram does not provide actual fuel pressures.

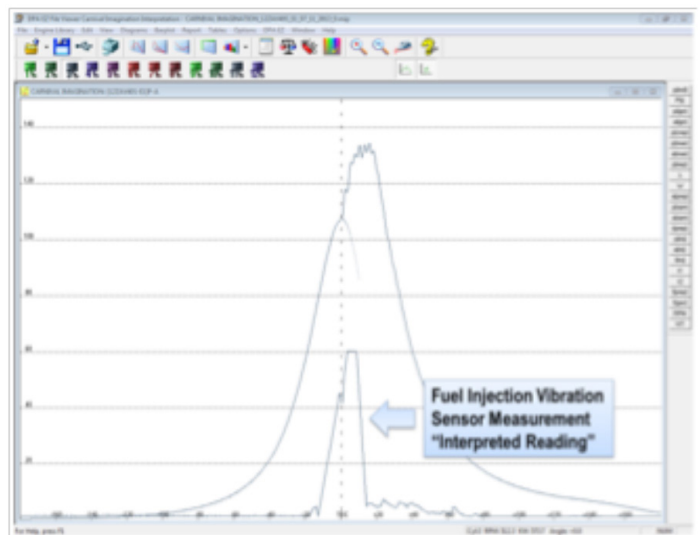
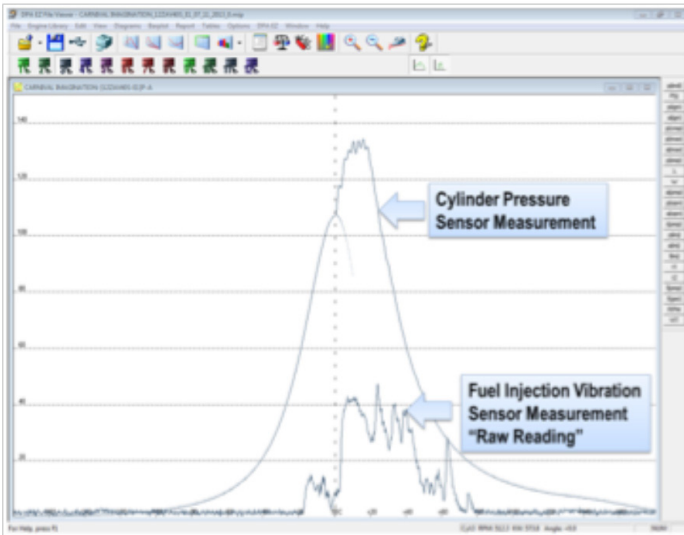
## ORDERING INFORMATION

### Description

DPA Fuel Option Kit  
DPA EZ Fuel Option Kit

### PCN

1AA2656  
1AB1263



Contact your Drew Marine representative for more information

Drew Marine maintains Safety Data Sheets on all of its products. These documents contain health and safety information for the development of appropriate product handling procedures to protect your employees. Safety Data Sheets should be read and understood by all of your supervisory personnel and employees before using Drew Marine products.



# **Drew Marine®**

**100 South Jefferson Road  
Whippany, NJ 07981 USA  
1-973-526-5700  
Drew-Marine.com**

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