

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 Kit is 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 Kit is available for 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 next generation electromagnetic acoustic emission transducer (EMAT II) sensor technology for monitoring fuel injection timing events. A single EMAT II 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">• 1x DPA EMAT II sensor, 15m• 1x Fuel Software Interpretation	Applicable to DPA IV (USB) fixed systems only

1AB1263	DPA EZ Fuel Option Kit <ul style="list-style-type: none">• 1x DPA EMAT II sensor, 2m• 1x Fuel Software Interpretation	Applicable to DPA EZ portable engine analyzer only
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APPLICATION & USE

The EMAT II 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. 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 II readings, Drew Marine will provide customized software that will convert the raw EMAT II measurement into a well-defined or interpreted fuel diagram. A link to download the new fuel interpretation (*.exe) program will be sent via email.

FEATURES

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

BENEFITS

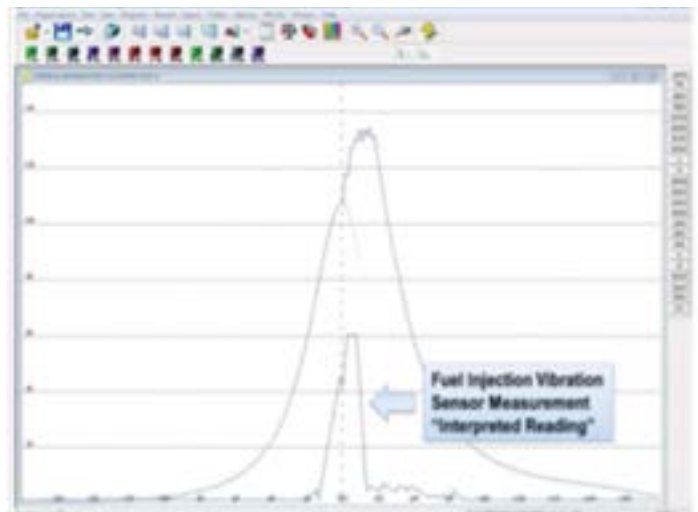
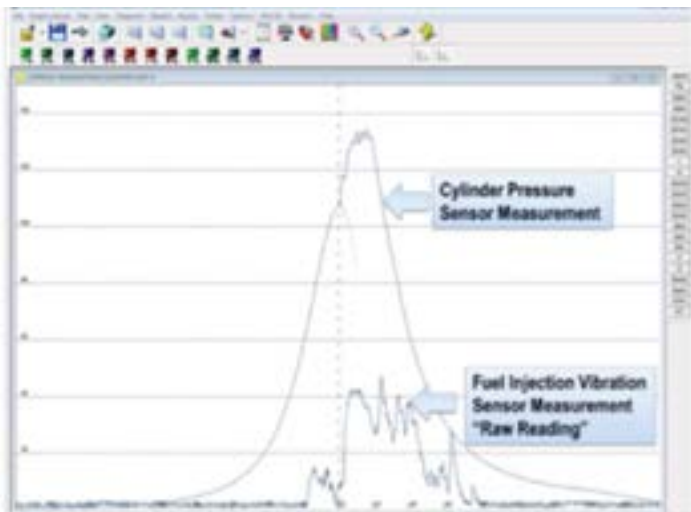
- No penetration into high-pressure fuel lines
- No grease or couplant is needed for mounting
- Easy-to-use software interpretation identifies key injection timing events
- Easy mounting to injection equipment
- Sensor overcomes excessive engine vibration and limited measurement surface area from partial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

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 allow full flexibility in analyzing readings 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	PCN
DPA Fuel Option Kit	1AA2656
DPA EZ Fuel Option Kit	1AB1263



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