

EDI cooperates with the EdiSoft

application, which makes

detailed data analysis and

Users of the EDI systems are

software and firmware updates.

After taking measurements, the database with the collected

results can be sent via e-mail to a gualified mechanic, who can

diagnose the engine based on

those results.

entitled to free-of-charge

logging easier.

EDI – engine diagnostic system

Engine Diagnostic Instrument Panel



What is the EDI-Panel?

EDI-Panel (Engine Diagnostic Instrument) is a stationary diagnostic device system, designed for measurement and logging of compression pressure and fuel injection pressure in engines equipped with indicator cocks. Thanks to this, characteristics of the pressure present in the system can be extracted to a crank angle function. The use of that characteristic allows for diagnostic of the current state of the engine. The system includes algorithms for calculating the indicated engine power, maximum pressure (P_{max}), and the rotational speed and position of the shaft.

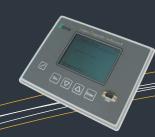
Why use the EDI device?

Thanks to periodical diagnostics and precise engine adjustments when using the EDI system, you save time, money and help the natural environment. The capabilities that the EDI system possesses, allow for precise indication of the elements that should be fixed, without the need for a complete overhaul.

The main advantages when using the EDI system are:

- Fuel consumption reduction (even by 20%)
- Engine maintenance cost reduction
- Engine efficiency increase
- Failure detectability increase
- Engine components life extension
- Service stop cost losses decrease
- Engine operational safety increase
- Exhaust gas emission decrease
- Engine characteristics shown on a built-in graphic display (thanks to which, connecting to a PC is not needed)
- Possibility of measuring a large number of engine cylinders during one measurement cycle
- Continuous engine monitoring
 - An easy way to create engine work documentation





TECHNICAL SUPPORT

Training in operating EDI systems can be provided by us or our commercial partners.

EXTENSION POSSIBILITY

EDI-Panel cooperates with the **EDI Multiplexer** kit, which allows for a larger number of engine cylinders being measured during

OONTAOT

one measurement cycle

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EDI – engine diagnostic software

Possibilities of the EDI-Panel device

The main characteristics of the device are:

- Measurements of the compression chamber pressure, fuel injection pressure, indicated engine power, maximum pressure (P_{max}) and the engine shaft's rotational speed
- The device is capable of autonomous work, or can be a master unit of the EDI Multiplexer kit
- Pressure characteristics can be determined without the use of rotational speed and shaft position sensors
- The TDC point may be adjusted for the whole
 engine or individual cylinders
- The results can be shown as graphs and charts on the built-in graphic display
- Possibility of measurement logging of 8 18cylinder engines
- Up-to-date firmware for the EDI device via free updates
 - Cooperates with personal computers



Easy operating and reliability

Operating the device is easy and the clear & legible menu is user friendly. The measurements can be done automatically or manually. All those features allow the user to perform complete measurements of a standard engine in no more than 15 minutes.

The data exchange between an **EDI** device and a PC is performed with an **EdiSoft** application, which allows for data importing via "drag & drop" techniques.

The reliability of the device has been confirmed during work in the toughest conditions.

Technical parameters

Parameter	Description
Supply voltage	1230 VDC
Display	TFT 5.7", color, graphical
Serial communication ports	1xRS232, 2xRS232/RS485
Work environment relative humidity	20%95%
Work environment temperature	-30°C70°C
Connectors	2x Lemo 1B5, 1x Lemo 2B6, 1x 3x5,08 mm, 2x 5x3,81 mm
Flash memory	Up to 64 MB
Casing protection degree	IP54 (from the front)
Weight	2,5 kg
Dimensions	270x246x124 mm
Catalogue Number	12-01-0102-01