



## ELECTRONIC ENGINE INDICATOR - DPI (MIP)

*No need to install TDC sensors  
on the engine for power  
calculation*

**MADE  
IN  
GERMANY**



**The Digital Pressure Indicator DPI measures dynamic pressures.**  
**It is especially designed to analyze large two and four stroke Diesel engines.**

The DPI can be seen as the electronic equivalent of the range of mechanical indicators with all advantages of an electronic device and a very convincing price-performance ratio. If precise digital pressure measurements of ship's engines are needed, the DPI is the ideal instrument. The hand-held is ready-to-use and is very simple to operate. With the included Windows PC software, measurements can be archived, mailed or used to analyze the engines using the many sophisticated data visualizations. It is a powerful and easy-to-use electronic indication device. A specially developed measuring procedure allows a high-accuracy level of the measuring results. It is a high quality product which can be characterized by its long life components as well as being absolutely user friendly.

The system contains the basic components: Hand-held data acquisition unit, quartz pressure sensor and analyzing software.

The measuring method of the DPI<sup>Type50</sup> is as follows: The pressure sensor is temporarily connected to the indicator valve. While the measuring series is being recorded, the data can be read off the LC display of the DPI<sup>Type50</sup> hand-held. After that, the data sets are saved to memory and can be transferred to the PC via the USB interface. The data may be evaluated and administered with the DPI software. In order to connect the pressure sensor, the engine to be analyzed must be equipped with standard indication valves (Thompson connection).

### **HARD FACTS:**

- |   |  |
|---|--|
| ⇒ No need to install TDC sensors on the engine for power calculation  | ⇒ Sufficient memory and battery to analyze up to 50 engines with 24 cylinders each |
| ⇒ Easy handling and Plug 'n' Play installation of the soft-and hardware results in less user related problems | ⇒ Storage of motor and measurement parameters                                      |
| ⇒ Excellent price-performance ration  | ⇒ Easy, on-site hand-held software update (via download or e-mail)                 |
| ⇒ No copy limitations of the software   | ⇒ Directly e-mail measurements from the PC software                                |
| ⇒ Usage of a high quality sensor  | ⇒ High sensitivity through 16-bit A/D converter                                    |
| ⇒ Menue controlled operation  |  |

**Your reliable partner for marine measuring instruments and service**



## ELECTRONIC ENGINE INDICATOR - DPI (MIP)

### Technical data

Pressure range:	0 to 250 bar
Engine range:	50 to 5.000 rpm
Accuracy:	< 0.5%
A/D sampling precision:	16 bit (0.0092 bar/sample)
Memory capacity:	50 engines
Battery type:	Standard AA, rechargeable
Battery capacity:	> 6 hrs (charging via USB)
Display:	20 x 4 alphanumeric characters, backlight, high contrast
Standard connection:	W 27 x 1/10"
Operating temperature:	0 to 55°C (Hand-held unit) 0 to 350°C (Pressure sensor)
Dimensions:	211 x 100 x 45 mm (Hand-held unit) Ø = 60 mm, L = 210mm (Pressure sensor)
Weight:	380g (Hand-held unit); 830g (Pressure sensor)

### Analyzing software:

Some additional informations can be displayed using the DPI software. After measuring the pressure with the DPI hand-held, the measured data can be downloaded to any PC and analyzed with our analyzing software supplied with the DPI.

