

PREMET® C

ELECTRONIC CYLINDER PRESSURE INDICATOR

- High resolution colour display
- All curves and diagrams shown immediately
- Large memory for thousands of measurements
- Self-explanatory user interface
- Even more robust design
- Powered by KISTLER



The next generation of cylinder pressure monitoring

The new **LEMAG PREMET® C** is a state of the technology electronic cylinder pressure indicator. All measured data can be evaluated immediately on the high resolution colour display, including all the curves and diagrams previously only known from computer based evaluation software.

The simple and self-explanatory software structure allows this versatile instrument to be operated using only four robust stainless steel buttons.

The large integrated memory allows all measurements and engine data to be stored in the instrument itself. As a matter of course the data can also be evaluated on a computer and sent by e-mail for evaluation or storage.

The heart of the instrument is the pressure sensor. Using the latest technology from Kistler

Switzerland its accuracy and lifetime are setting a new standard.

The **LEMAG PREMET® C** electronic cylinder pressure indicator is available in different versions, each one optimized for the user's needs.

Quick measurements are possible without needing to stop the engine to install sensors. For more a detailed engine analysis the **LEMAG PREMET® C** can also be equipped with a TDC sensor, which enables the instrument to measure mean indicated pressure (MIP) and indicated power.

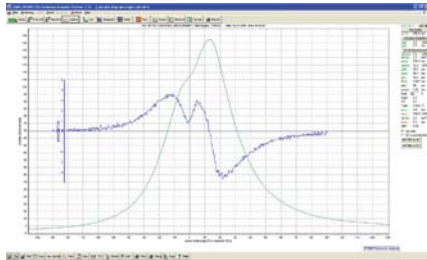
On large slow speed engines the LEMAG Multiscan-Sensor can be used to measure the crank angle with a physical resolution of 360 degrees to ensure that the measured data is of an optimum accuracy.

Subject to change without notice

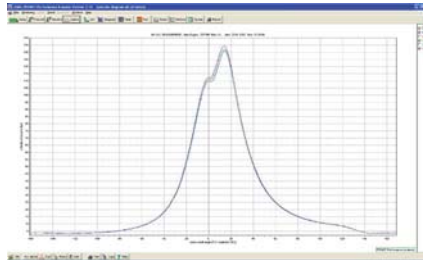
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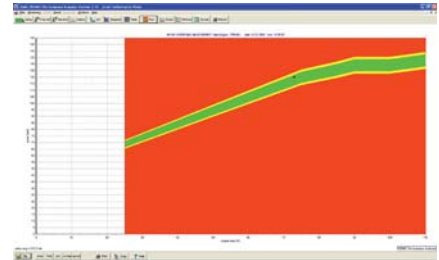
Sample PREMET Performance Analyser (PPA) software screenshots:



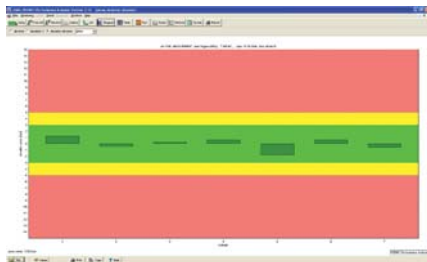
p/alpha with dp/da



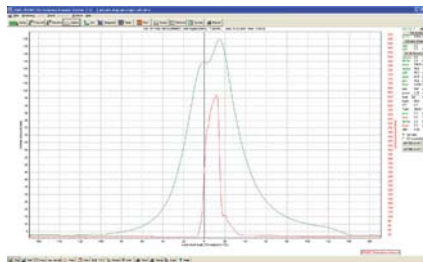
p/alpha all curves



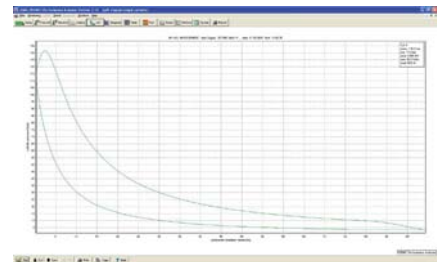
fast performance view



deviation diagram



p/alpha with fuel



p/V diagram

Technical Details	
Ignition pressure range	0 – 250 bar
Injection pressure range (only for option fuel)	<1600 bar
Speed range	40 – 1800 rpm
Max. number of cylinders	20
Max. number of measurements/cylinder	30
Manufactured according to ISO 9001	•
Compensation of temperature	•
USB connection	•
Stainless steel housing with isolated thermogrip	•
High resolution colour display	•
Accuracy	Better than 1.6

PREMET C	LS	XL	XLMS
WPREMET software	•	•	•
PPA software	∅	∅	∅
Power diagram		•	•
Comparison with reference measurements	•	•	•
Pmax	•	•	•
Measurement of injection pressure (fuel)		∅	∅
Acceleration monitoring (ACL)		∅	∅
Pressure vs. time	•	•	•
Deviation of pressure peak vs. crank angle		•	•
Compensation of torsional vibration			•
Pressure sensor with armoured cable (h)	∅	∅	∅
TDC Sensor		•	•
MS wheel with 360° resolution sensor			•

Key legend:
Standard • / Optional ∅

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