

The **CPM**® system s a simple, user-friendly device for measuring cylinder pressure on every engine with indicator cook. It is designed to measure and analyze the combustion process of 2- and 4-stroke marine diesel engines and for stationary power plants. It offers the potential to gauge all the engines in your machine room and draw up well-founded diagnostic reports quickly with a high degree of accuracy.



Technical Details	СРМ	CPM-U				
Pressure sensor with armoured cable	✓	✓				
Pressure sensor range	0-300 [bar]	0-300 [bar]				
Pressure sensor accuracy	+/-1% f.s.	+/-1% f.s.				
Ultra Sonic Sensor	-	✓				
2/ 4 Stroke	√	✓				
Speed range	25-2000 [rpm]	25-2000 [rpm]				
Max. number of cylinder	24	24				
Compensation of temperature	√	✓				
USB connection	√	✓				
RJ45 network communication	√	✓				
Software CD	√	✓				
Software updates	✓	✓				
Work System for CPM	XP,Vista,Windows7 or higher	XP,Vista,Windows7 or higher				
Additional TDC Sensor	no need	no need				
Additional extra cables	no need	no need				
Additional encoder solution	no need	no need				
Display	no need	no need				
Additional Calibration	no need	no need				
Dynamical TDC correction	√	✓				
Pmax./ Pcomp. /Power (ind.) /Speed	√	✓				
Software P/alpha diagram	✓	✓				
Software P/V diagram	✓	✓				
Software Changing Rate diagram	✓	✓				
Software bar charts/limits	✓	✓				
Software Export/Print/Report/Zoom	√	✓				
function						
Data file size of <140 kByte for email	✓	✓				
sending						
Injection timing	-	✓				
Valves timing	-	✓				
Valves Leakage	-	✓				
Maritime Service Centre for (CBM)	✓	✓				
Type Approval	✓	✓				
Class Approval for a Condition Monitoring System	√	√				





Over view

Hard shell case,

H,L,W: 420; 480; 115 [mm] Dimension:

Weight: [kg]/ [lbs] CPM® 6.6/ 14.55 CPM Ultra® 7/ 15,43

Computer requirements

Pentium IV processor or higher

512 MB RAM or more

Hard disk with at least 500 MB free space Display with 1024 x 768 resolution or higher

CD-ROM drive / Mouse

RJ45 network communication port

Scope of supply

- 1 x Hard shell case
- 1 x Handset
- 1 x Cylinder pressure sensor (permanently connected to the handset)
- 1 x Charger
- 1 x Battery (inside the handset)
- 4 x Adapter for on-shore connection/on-board supply system for charger
- 1 x Tool to release the cylinder pressure sensor
- 1 x Ultrasonic sensor (only CPM Ultra®)
- x Connecting cable for ultrasonic sensor/handset (only CPM Ultra®)

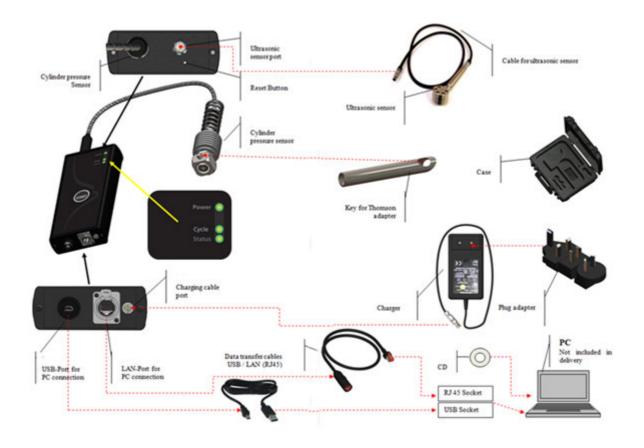
Data transfer cable: -1 x RJ 45 Port

-1 x USB Port

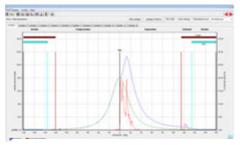
1 x CD to install software onto PC

1 x Instruction manual

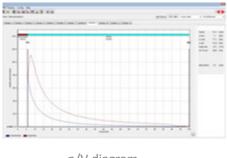




CPM software screenshots:



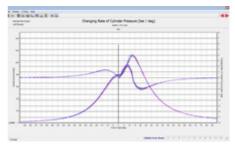
p/alpha with Injection and valve timing



p/V diagram



bar charts



p/alpha with dp/da

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engine report file

REV.02;2015

Technical changes without notice