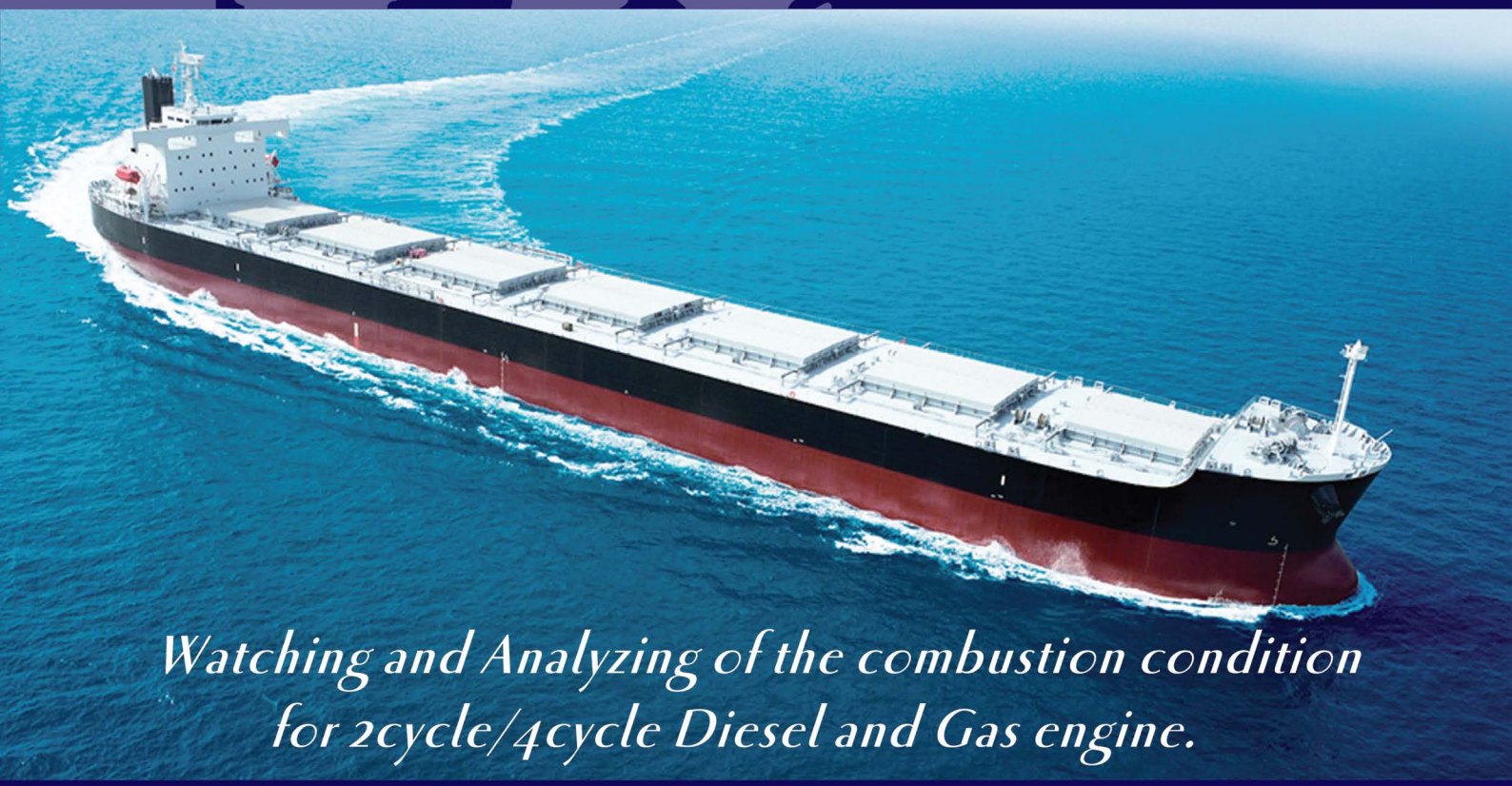
YSK Systems Co.,Ltd.



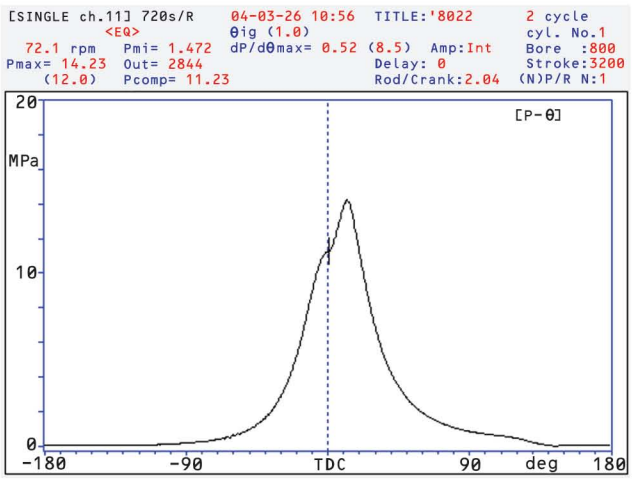
Watching and Analyzing of the combustion condition for 2cycle/4cycle Diesel and Gas engine.

NH-XⅢ

NH-XⅡ

Total merit of NH-X Engine Analyzer.

The early diagnosis for engine performance by NH-X can get the long maintenance interval for diesel engine. The optimum operation of diesel engine is obtained with suitable fuel consumption.



1 Torque rich is found.

2 The load unbalance is found between each cylinder.

3 The prevention can be done for the future trouble.

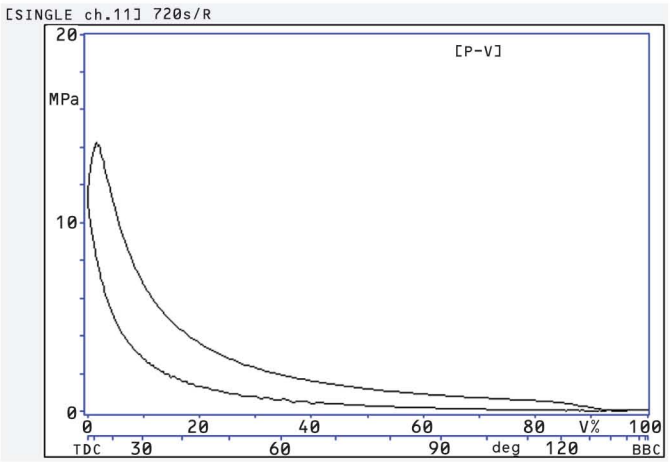
4 Ratio of after burning is found by the heat release diagram.

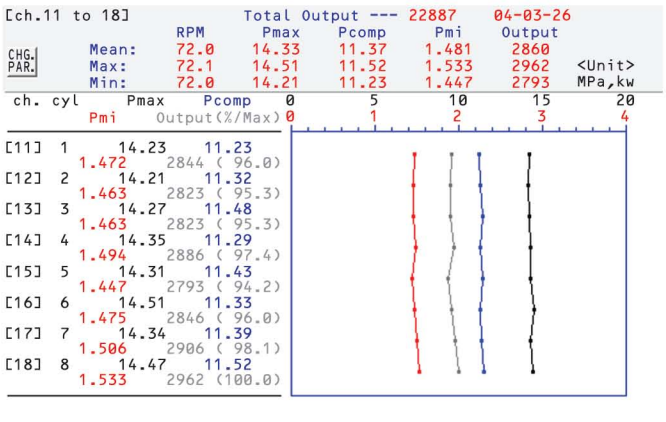
Available to check the combustion condition of engine periodically.

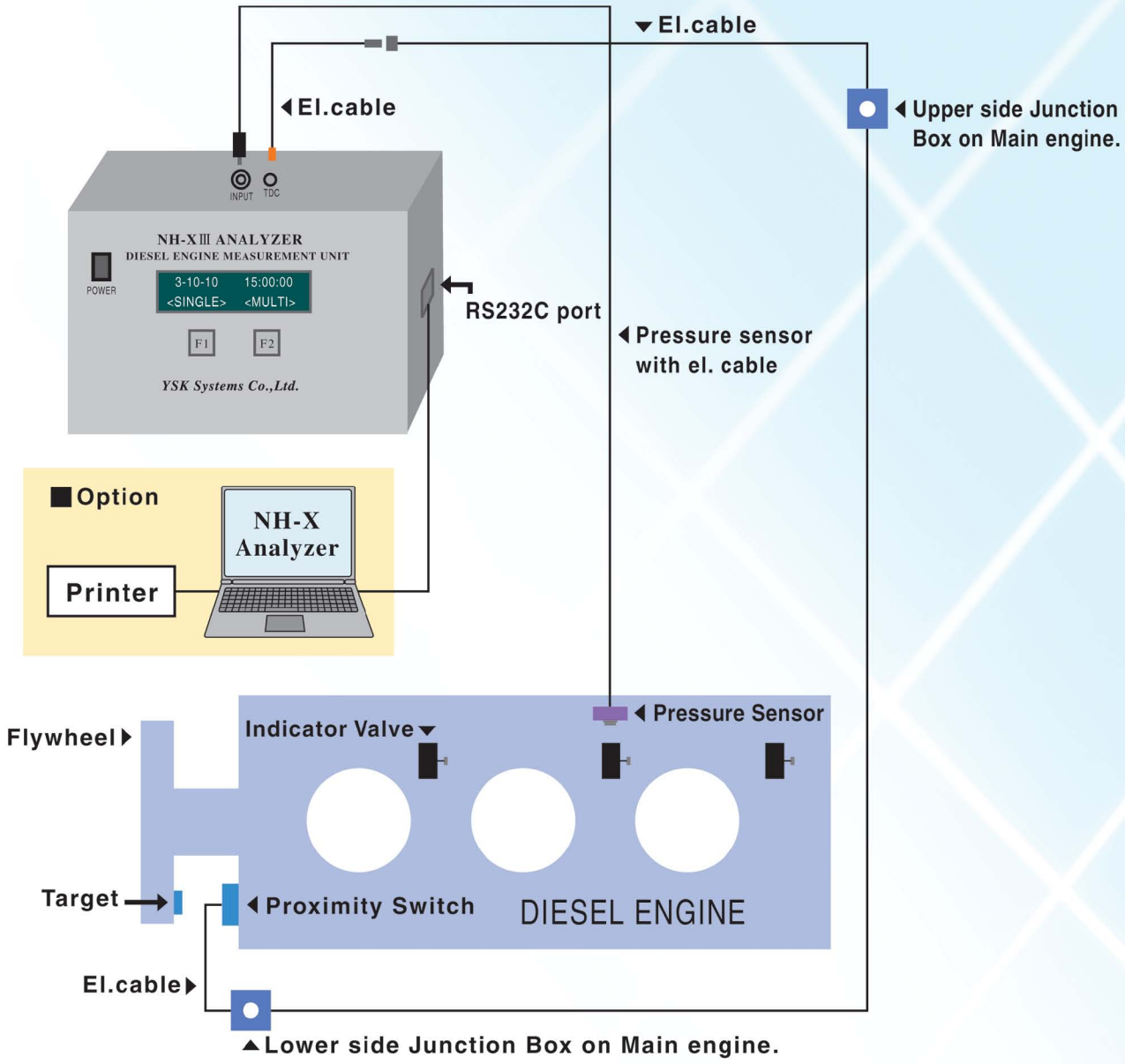
This NH-X measures the combustion pressure inside cylinder at each crank shaft angle based on TDC and can show Pmax.,Pcomp.,Pmi.,θig、IHP,each diagram such as P-θ,,P-V. and the heat release.They are shown on PC screen.The best combustion condition can be found by our own sophisticated analyzing soft ware with the accurate data.Available to the improving of fuel consumption,reducing of the maintenance cost and the protection for serious trouble on diesel engine.

Easy operation and Portable Type.

Model NH-X2 and NH-X3 are the portable type and small size instrument with the high accurate performance and the high processing speed.NH-X2 can operate by 4 buttons, dialog on LCD and measure the max. pressure even if no TDC pulse signal.NH-X3 can operate by 2 buttons and Data is analyzed by our soft ware on PC.Anybody can get the accurate and clear data easily.They can apply for high, medium and low speed engines and also 2cycle, 4cycle diesel and gas engines.







Technical Specification

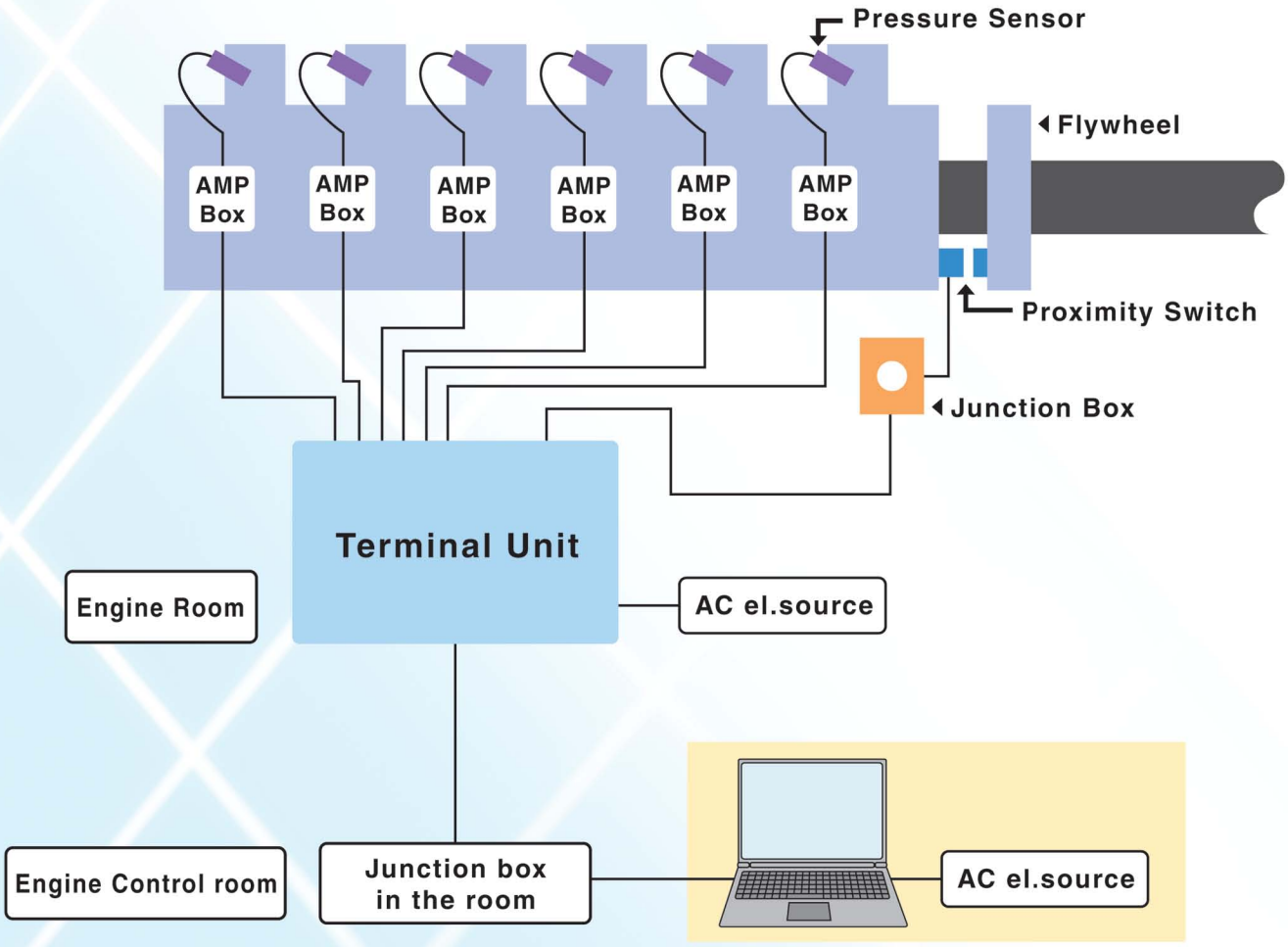
	Model	NH-XⅡ	NH-XⅢ
Specification	Engine	2,4 cycle / Diesel , Gas	
	No. of Cylinder	Max.24	Max.20
	R.P.M	21~2800 rpm	21~2500 rpm
	Max. Pressure	200kg/cm²G	
	Memory Channel	40	20
		Data is shown on LCD	Data is shown on PC
		Available w/o TDC signal	TDC signal is required
Input Signal	Pressure sensor	Quartz Pressure Sensor(Piezoelectric Type)	
	TDC Pulse	Proximity Switch	
	N/RPM Pulse	N times pulse per 1rpm	N/A
	Multi Channel Input	Option	N/A
Output Signal	Output Signal	RS232C	
Electric Source		Battery Charge(AC100~200V)	AA Alkali Battery×4
Dimension	W×D×H [mm] / Weight	210×80×120/3kg	170×125×50/1kg

NH-X Multi Type (The Same Time Measurement Instrument)

This model can measure, almost same time, the pressure of whole cylinders because the pressure sensors are provided on whole cylinders.Each cylinder is measured the data at no time lag under the same load condition and the same outside circumstances.The accurate comparison can be done for the load unbalance between each cylinder.It can protect the large torsional unbalance and the damage of flexible coupling.Also, especially, it is very easiness to adjust the same Pmax. condition on each cylinder for the modern electric controlled engine due to the same time measurement for all cylinder.

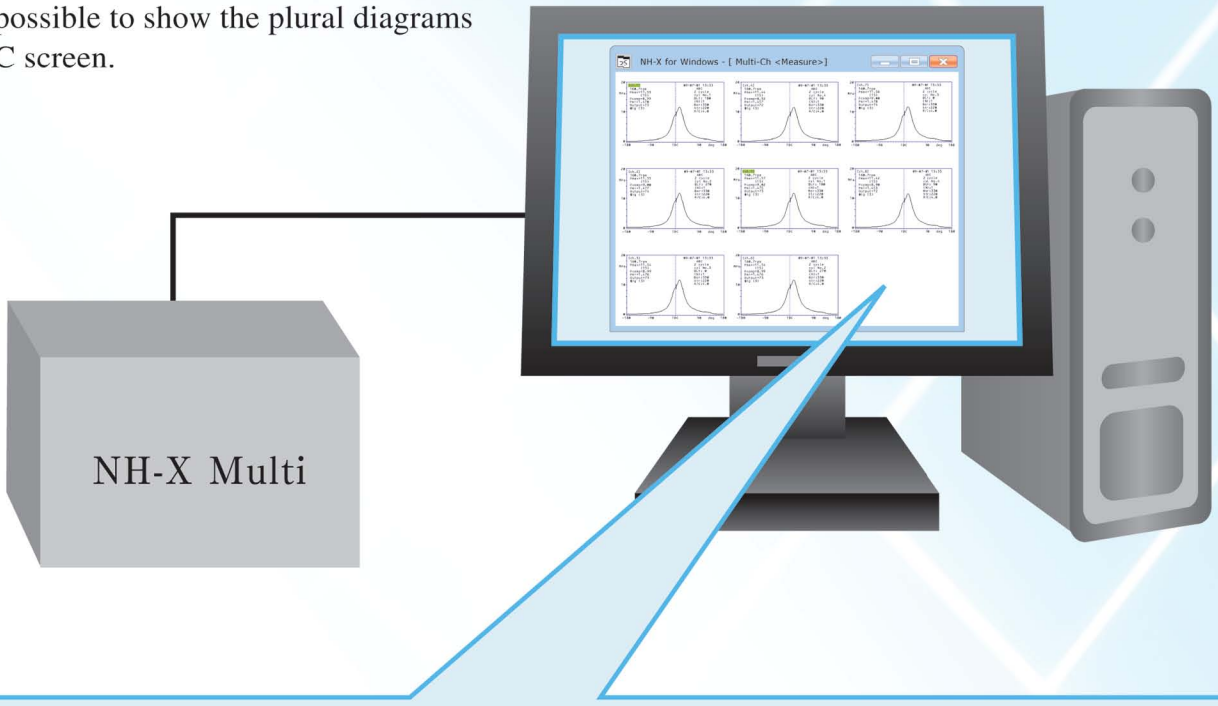
Technical Specification

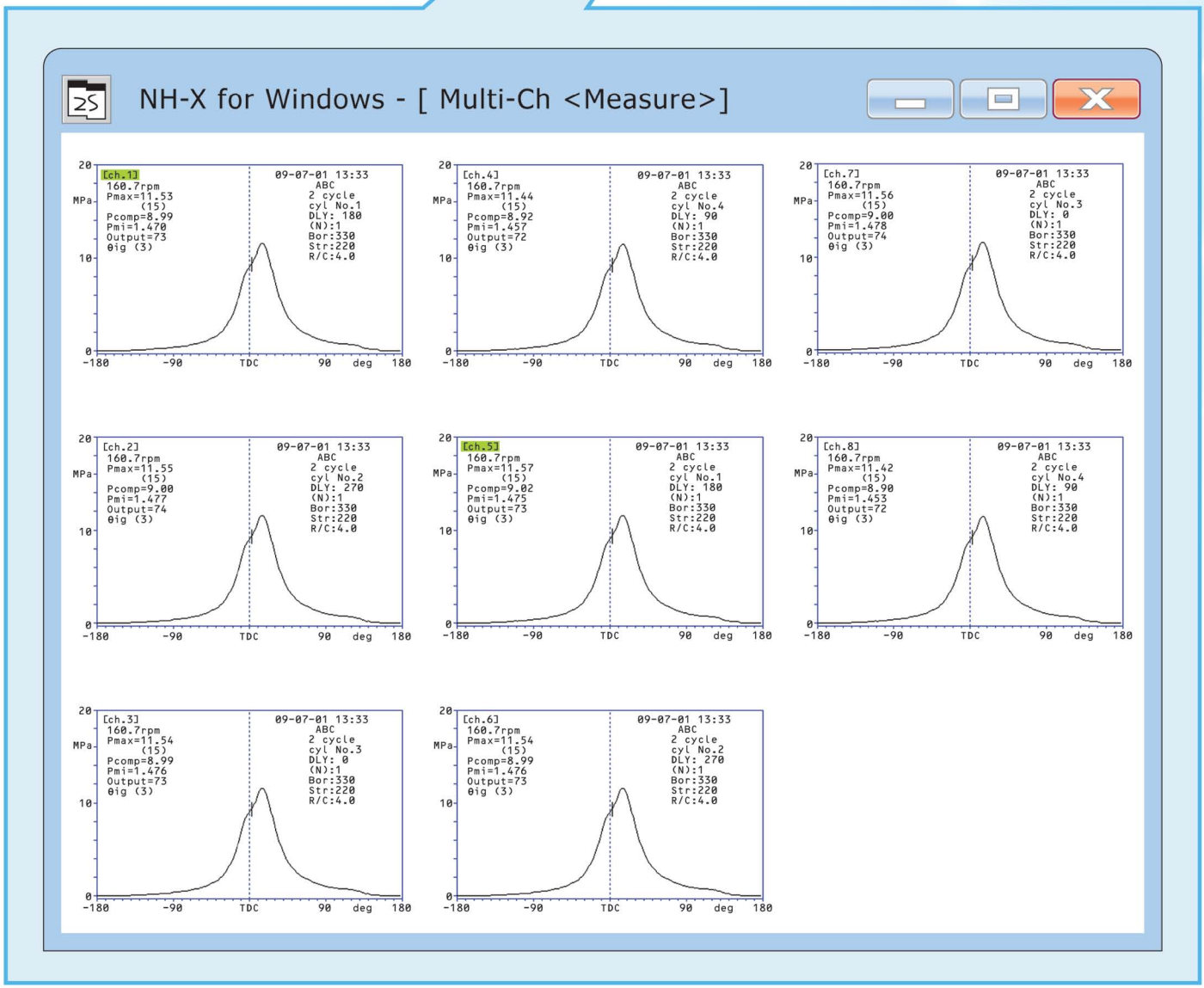
	Model	NH-X Multi
Application	Engine	2 ,4cycle / Diesel , Gas
	No. of Cylinder	Max. 40
	R.P.M	21~2500 rpm
	Max. Pressure	200kg /cm²G
Input Signal	Pressure sensor	Quartz Pressure Sensor
	TDC Pulse	Proximity Switch
Electric Source		AC100~200V



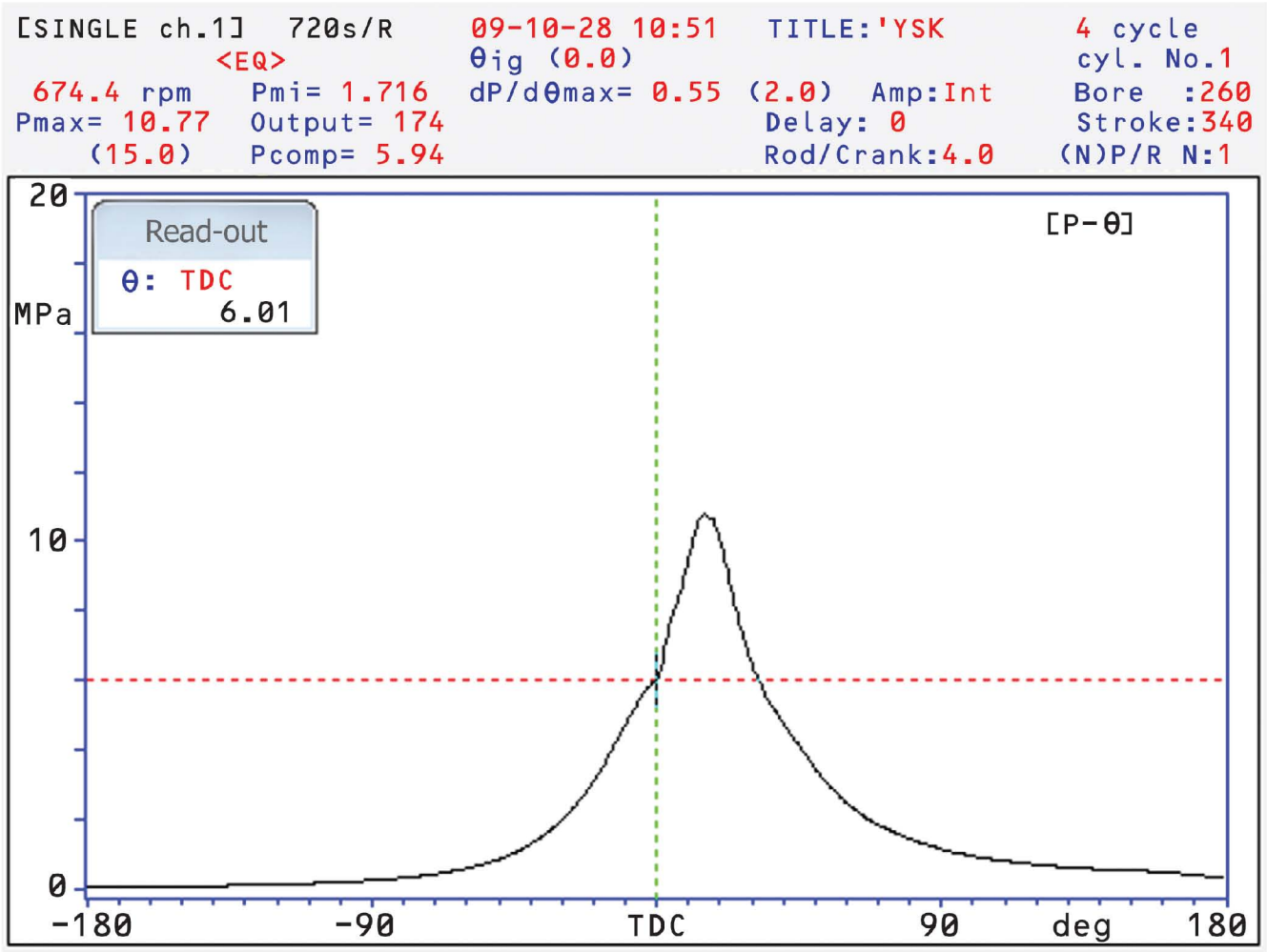
Example on the monitor screen.

It is possible to show the plural diagrams on PC screen.

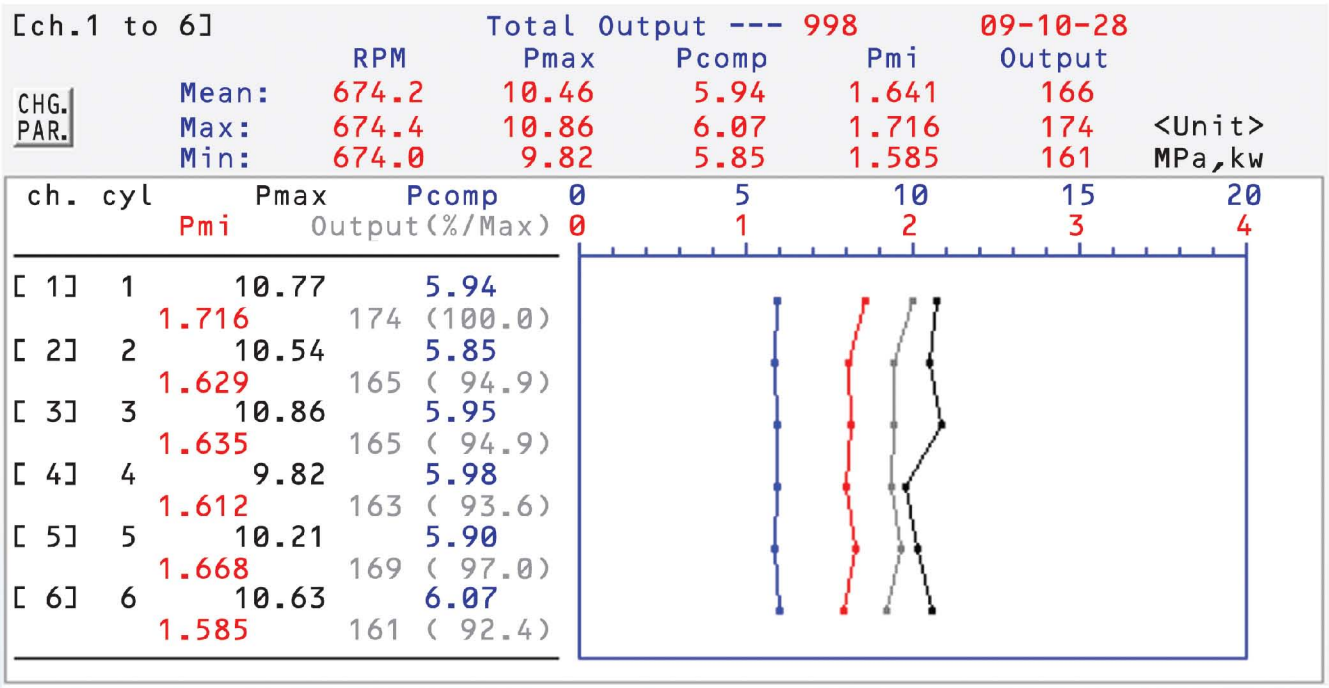




<Example:P-θ Diagram>



<Example:A Look of Data Report>



YSK Systems Co.,Ltd.

Company Profile

Name

YSK Systems Co.,Ltd.

Address

1-2-7 Mikawaguchi-cho, Hyogo-ku, Kobe city, 652-0815 Japan.
Tel:+81-78-681-7235　Fax:+81-78-671-2024
Established in 1992

Capital

10 Million JPY.

CEO

Mr. Makoto Kunishio.

Major Business Item

Development, Fabrication and Sales for

1) Electronic device such as sensor and measurement equipment.
2) Portable Diesel Engine Analyzer and Heat release soft wear.
3) Spare Parts for Marine Equipments.
4) Spurs Line and Net cutter system.

Major Customers

NYK Line
Mitsui O.S.K.Line
K-Line Ship Management
Japanese Fishery Agency
IHI/Diesel United
MHI Kobe / Nagasaki
Niigata Shipyard
Sasakura Engineering Co., Ltd

YSK Systems Co.,Ltd. http://www.ysk-sys.co.jp

1-2-7 Mikawaguchi-cho, Hyogo-ku, Kobe city, 652-0815 Japan.

Tel:+81-78-681-7235 Fax:+81-78-671-2024 E-mail:ysk@ysk-sys.co.jp