

EDS Mk4 Graphic Engine Performance Analyser

**TecnoVeritas -
Services of
Engineering &
Systems
Technology Ltd.**

**From the Engine
Specialist, the Analyser
to Protect & Optimise
your Engines**

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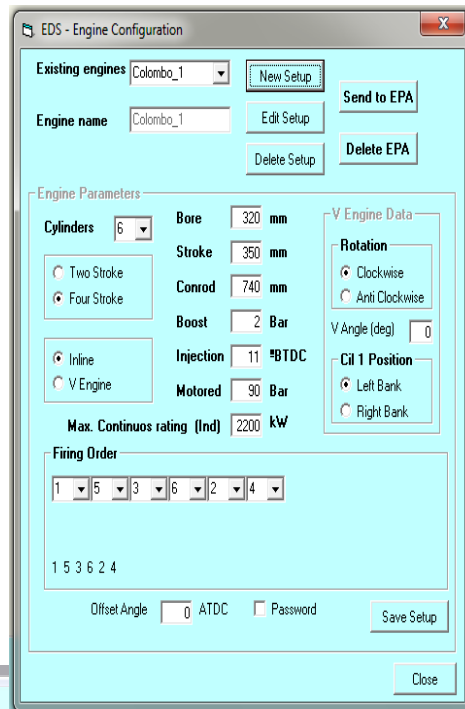
EDS Mk4 - Engine Diagnosis System

**To Control Diesel Emissions & Minimise
Fuel & Maintenance Costs.**

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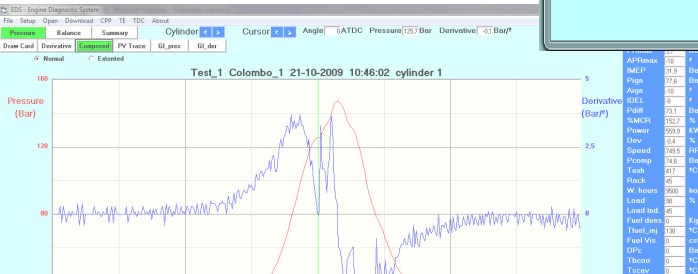
EDS Mk4, as a "real time system" analyzer is also accompanied by a powerful data base and data analysis software allowing engine data ambient corrections and turbo charger efficiency monitoring. Vibrations analysis and Fuel injection pump diagnosis diagrams are also possible as options.

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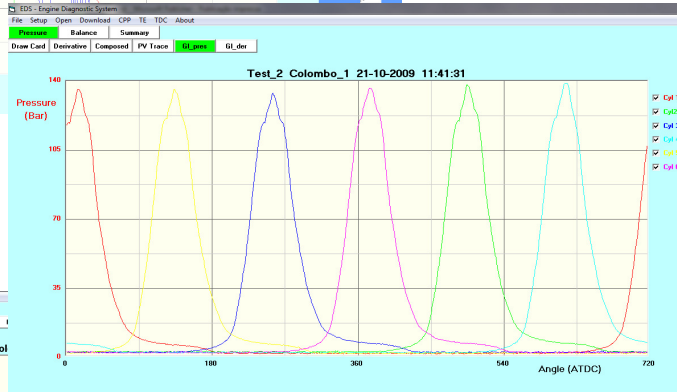


Engine setup menu

Open and Rate of Pressure Rise diagrams

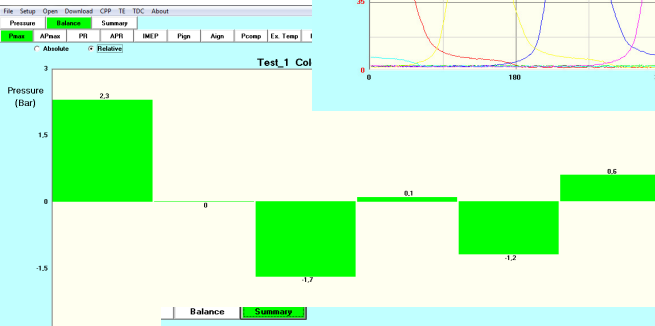


Comparison of open diagrams – Engine Combustion Balancing



Engine Combustion Balancing

Process Variables



Test_1 Colombo_1 21-10-2009 10:46:02

W. hours 3500 (Hours)	Fuel dens. 0 (kg/m3)	Tbcoo 0 (°C)	Ta 0 (°C)	Turbo 1 0 (RPm)
Load 90 (%)	Tfuel inj 130 (°C)	Tscav 0 (°C)	Pa 0 (Bar)	Turbo 2 0 (RPm)
Load ind 45	Fuel vis 0 (cent)	Tcoolin 0 (°C)	Pscav 0 (Bar)	Turbo 3 0 (RPm)
WIT 0		Tcoolout 0 (°C)	DPc 0 (Bar)	Turbo 4 0 (RPm)

Cyl	Pmax	APmax	RPR	APR	IMEP	Pign	Align	IDEL	Pdiff	3MCR	Power	Speed	Pcomp	Texh
1	147.7	14	3.7	-18	31.9	77.6	-18	-8	73.1	152.7	560	749.5	74.6	417
2	145.4	11	3.7	-15	31.9	88.7	-15	-5	60	152.8	560	749.5	85.4	416
3	143.7	14	3.7	-13	31.8	94.4	-13	-3	52.6	152.7	560	749.8	91.1	419
4	145.5	12	3.9	-12	32.3	91.3	-14	-4	57.4	154.7	567	749.5	88.1	420
5	144.2	12	3.7	-16	32.1	81.4	-17	-7	66	154.1	565	749.8	78.2	418
6	146	13	3.8	-14	31.9	86.1	-16	-6	63.2	152.8	560	749.5	82.8	421
Mean	145.4	12.7	3.8	-14.7	32	86.6	-15.5	-5.5	62	153.3	562	749.6	83.4	418

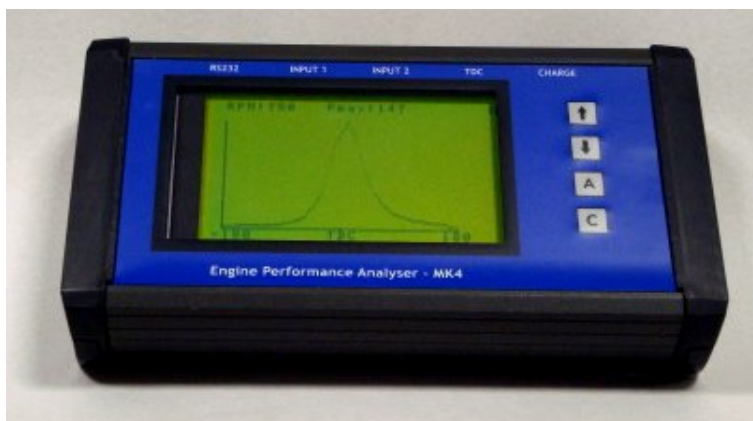
Data Summary ,Automatic Reports of Engine Tests



Technical info:

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Power supply	Battery 2 x 7,4V/2300mAh
Operation temperature	-40 ° C - + 85 ° C
Processor	Texas Instruments
Dimensions (WxHxD), mm	220 x 122 x 47
Weight	0,9 kg
Memory capacity	1,0 GB
Display with back light	Graphic , 249x128 pixels
Analogue inputs	2
Input range	4-20mA, 0-10V
Resolution	0.5 °- 1.0° degrees crank angle
Accuracy	0,1% FS
Digital Input	1 [synchronization, TDC cylinder 1]
Resolution	16 Bit
Cycle	Two or Four Stroke engines
Reciprocating compressors	Single / Double acting
Speed	50 – 3000 RPM
Data content	Speed, Pressure, Temperature , Degrees, Acceleration



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