GENERAL SPECIFICATIONS

Display (LCD)	Color 3.5"TFT (320×240 pixels) Screen size : L 53mm×W 70mm
Display Sampling Rate	30 times / sec.
Power Supply	Rechargeable lithium battery (LiFePO4) 3.2 V /1500mAh (Installed)
Battery Life	Approx. 5 hours of continuous operation (full-charged)
InputTerminal	5V/0.5A (USB micro-B female connector for built-in battery charge)
Auto Power Off	Automatic power off after 3 minutes of inactivity
Ignition Systems	Direct ignition, High-tension code, Wasted spark ignition systems
EngineTypes	2 and 4 stroke engine cycle
Operating Temperature & Humidity	0 to 40°C, less than 70%rh (in non-condensing)
Storage Temperature & Humidity	-20 to 45°C, less than 70%rh (in non-condensing)
Safety Level	CE marking
Flexible Probe	approx. 34cm (with sensor)
Dimensions	160mm (H) ×99mm (W) ×34mm (D) (without probe)
Weight	330g (without probe)

MEASUREMENT SPECIFICATIONS

Measurement Mode	Range	Accuracy	Resolution
Engine RPM	400 to 19,999rpm	0.5%±1dgt	1rpm
Spark Plug Voltage	0 to 50kV	_	0.01kV
Spark Burn (Firing) Time	0 to 10ms	±0.15ms+1dgt	0.01ms
Dwell Angle 4-stroke	0 to 270° (600rpm or more)	− ±1.2°×krpm±1dgt	0.1°
2-stroke	0 to 180° (750rpm or more)		
Primary Coil Current Ram	oTime 0 to 10ms	±0.2ms+1dgt	0.01ms

■ KG-300 SET INCLUDES





1)Main Unit······1 pc. 3670 Flexible Probe ····· 1 pc.









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②Holster ·····1 pc. (attached)







⑦1029 Carrying Case·····1 pc. ⑧Instruction Manual ·····1 pc.

DISTRIBUTOR

All specifications are subject to change without notice.

KG-300 IGNITION ANALYZER

Quick and Powerful Ignition Coil Test Just Placing the Sensor on the Module

Have a problem in troubleshooting around ignition system? This handheld device, KG-300 can release car mechanics from annoying work to check the ignition coils.

Just placing the sensor on the top of the ignition coil module, you can check the detailed failure conditions with clear display views.

Accurate ignition coil test with four measurement modes

Four display views are available for each measurement mode.



■ Engine RPM :

Measures engine RPM in 2 and 4 stroke and wasted spark ignition engines.

Digital view : Provides analog gauge for the selected measurement with digital readouts for

the other three measurements.



- Spark Burn (Firing) Time : Measures the period of time from the spark initiation to the extinguishment. ■ Comparison view :
- Useful to compare the sets of minimum, average and maximum values between several cylinders. under various testing conditions.



- Spark Plug Voltage : Measures spark plug voltage level. (Not same as the actual voltage value)
- Waveform view : Displays the signal amplitude over time (like an oscilloscope). Useful for visually checking.



- Primary Coil Current Ramp Time : Measures from when the primary coil current first begins to increase to when it stops increasing.
- Chart view
- Displays the measurement value as the time-series chart. Useful to check the data flow.



CE

IGNITION ANALYZEH

Just placing the sensor on top of the ignition module



Applicable for coil on plug module and spark plug wire

Easily detachable two types of sensors that can use both of the above ignition systems.



Powered by rechargeable battery Provides up to 5 hours operation with

rechargeable lithium battery.

Easy to read **Color TFT display**

Measurement sample on the Web

Measurement / display samples are available in the manual. Additional samples will be updated on the web.



Protective rubber holster

How to Measure





A. A. A. Marther Marth



5	leasurin	1
ms.	44	
6		
4	 +	
2		
0		

- ①Plug the appropriate sensor into the flexible probe.
- ②Select the number of cycles of the engine to be measured.
- 3 Start the engine, place the sensor accordingly as shown below.
- Direct Ignition (Coil on plug module)
- High tension code type



(d)Select the measuring mode and display view, read the measurements.

Examples of the failed ignition coil

Higher voltage than the other cylinders Measuring mode : Spark plug voltage
Display : Chart view



High voltage detected

2nd cylinder shows higher voltage level when measuring spark plug voltage of 3-cylinders engine in chart view. Weak spark plug may cause such trouble by increased resistance.

Abnormal waveform from spark line to coil oscillation process Measuring mode : Spark plug voltage
Display : Waveform view







Waveform of normal ignition coil

9 Large maximum to minimum range with short burn time

g mode : Spark burn time Display : Comparison view

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4th cylinder shows large maximum to minimum range with short spark burn

time. Comparison view is useful to see

Maximum Average Minimum

each cylinder conditions.