

TA100

Digital Tachometer and Ignition Analyzer

Conventional
Distributor
Ignition
Systems

Distributorless
Ignition
Systems (DIS)

Magneto
Ignition
Systems

Simple and easy to use

- ▶ Select the number of cylinders and engine cycle.
- ▶ Select type of measurement (RPM or spark plug voltage).
- ▶ Place the spark plug wire in the capacitive pick-up to measure spark plug voltage, or near the spark plug wire to measure RPM.
- ▶ Read live, maximum and minimum spark plug voltage or RPM on the LCD display.

TA100 description

The TA100's proprietary technology allows the user to measure RPM in a wide range of engines, from small to large, and perform quick and reliable diagnostics of non-starts, misfires, fouled up or damaged spark plugs and/or spark plug wires, by comparing digital read-outs of the spark plug voltage between cylinders on engines using conventional distributor/ignition coil, DIS (Distributor-less) or waste spark and magneto ignition systems. Simple to use, the TA100 requires no special adapters, cables or scope and is equipped with a large digital display that shows real time, maximum and minimum spark plug voltage and RPM, of engines from 1 to 12 cylinders, and 2-Stroke and 4-Stroke.

Special features:

- ▶ New and unique technology for measuring RPM and spark plug voltage, without the need for cables or hook ups.

Measures and displays in real time:

- ▶ Spark plug voltage.
- ▶ Engine RPM.



For use in engines equipped with:

- ▶ Conventional ignition coil/distributor, direct or wasted spark (DIS) and magneto ignition systems.
- ▶ 1, 2, 3, 4, 5, 6, 8 and 12 cylinders.
- ▶ 2-Stroke and 4-Stroke.

Quick and easy diagnostics of:

- ▶ Non-starts.
- ▶ Misfires.
- ▶ Defective coils.
- ▶ Fouled or damaged spark plugs.
- ▶ Damaged spark plug wires.

Technical Specifications

Display:

- ▶ Large 4½ digit LCD main display and two 3½ digit secondary displays for maximum and minimum
- ▶ Measuring units indicator
- ▶ Number of cylinders indicator
- ▶ Engine cycle indicator
- ▶ Spark detection indicator
- ▶ Low battery indicator

RPM measurement

- ▶ Range: 200 to 19,999 RPM
- ▶ Resolution: 1 RPM
- ▶ Accuracy: $\pm 0.1\% + 1 \text{ LSB}$

Response time:

- ▶ <300 mS (above 200 RPM)

Flexible probe:

- ▶ 7.5" (195 mm) long with capacitive pick-up

Power Source:

- ▶ 9-volt battery type NEDA 1604

Battery life:

- ▶ Approximately 25 hours (w/alkaline battery)

Power Saving:

- ▶ Automatic power off after 1 minute of inactivity

Dimensions:

- ▶ 6.1"(H) x 4.0"(W) x 1.5"(D) or 155 mm x 102 mm x 38 mm (without probe)

Weight:

- ▶ 11.8 oz or 335 g (w/battery)

TA100 set includes:

- ▶ TA100
- ▶ Protective rubber holster
- ▶ Hard carrying/storage case
- ▶ 9 Volt alkaline battery
- ▶ User manual
- ▶ 1 year parts and labor warranty

Spark (peak) kV

- ▶ Range: 0 to 49.9 kV
- ▶ Resolution: 0.1 kV
- ▶ Repetitivity: $\pm 0.2 \text{ kV}$

Applications:

- ▶ Automotive
- ▶ Industrial
- ▶ Aviation
- ▶ Agricultural
- ▶ Marine
- ▶ Small engines



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