

GTC

Coil on Plug

Coil near Plug

Conventional
Distributor
Ignition
Systems

Distributorless Ignition Systems (DIS)



Simple and easy to use

- ▶ Select the ignition system to be measured (spark plug wire or coil on plug), and the number of cycles.
- ▶ Place the capacitive pick-up (yellow tip) on top of the spark plug wire or ignition module.
- ▶ Read spark burn (firing) time, spark peak voltage and engine RPM on the LCD display.

How it works

The TA500 SmartTach+COP Multisystem Ignition Analyzer unique and proprietary technology allows the user to 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 and spark burn time between cylinders on engines using coil on plug, coil near plug, conventional distributor/ignition coil, DIS (distributor-less) or waste spark and magneto technologies.

Simple to use, the TA500 requires no special adapters, cables or scope and is equipped with a large digital display that shows spark plug voltage, spark burn time, engine RPM, as well as maximum and minimum readings in real time.

TA500

Multisystem Ignition Analyzer

Special COP mode:

- ▶ New and unique technology for testing coil on plug and coil near plug systems produces more consistent and reliable results.

Quick and easy diagnostics of:

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

No special adapters, cables or scope required:

- ▶ Measures and displays in real time
- ▶ Spark plug voltage
- ▶ Spark burn (firing) time
- ▶ Engine RPM
- ▶ Maximum and minimum readings

Technical Specifications

Display:

- ▶ Large 4½ digit LCD main display and two 3½ digit secondary displays
- ▶ Measuring units indicator
- ▶ Measuring function indicator
- ▶ Spark detection indicator
- ▶ Maximum and minimum readings
- ▶ Low battery indicator

RPM measurement

- ▶ Range: 200 to 19,999 RPM
- ▶ Resolution: 1 RPM
- ▶ Accuracy: $\pm 0.5\% + 1$ LSD

Spark burn (firing) time

- ▶ Range: 0 to 10.0 mS
- ▶ Resolution: 0.1 mS
- ▶ Accuracy: ± 0.1 mS + 1 LSD

Spark (peak) kV

- ▶ Range: 0 to 50 kV
- ▶ Resolution: 0.1 kV
- ▶ Repetitivity: ± 0.2 kV

Response time:

- ▶ <300 mS (above 200 RPM)

Flexible probe:

- ▶ 12" (30 cm) long with capacitive pick-up

Power Source:

- ▶ 9-volt battery type NEDA 1604

Battery life:

- ▶ Approximately 20 hours (w/alkaline battery)

Power Saving:

- ▶ Automatic power off after 3 minutes 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:

- ▶ 12.4 oz or 355 g (w/battery)

TA500 set includes:


- ▶ TA500
- ▶ Protective rubber holster
- ▶ Hard carrying/storage case
- ▶ 9 Volt alkaline battery
- ▶ User manual
- ▶ 1 year parts and labor warranty

Applications:

- ▶ Automotive
- ▶ Industrial
- ▶ Aviation
- ▶ Agricultural
- ▶ Marine



Other GTC products

 Product designed and manufactured in Canada



ST05
Oxygen Sensor
Tester and
Simulator



CT8002
Professional Cordless
Computer-Safe
Circuit Tester



FF310
FaultFinder
Open and Short Circuit
Finder and Tracer



CM Series
From 1 mA to 1000 A
AC/DC Current
Clamp Meters



LTX Series
From -20° up to 1400 °F
Infrared Thermometers
with Laser Sight



CT Series
Automotive and
Industrial Digital
Multimeters



TA110
Laser Tachometer and
Counter

TA500 Parts and Accessories

Part Number: **TA500CC**

Hard Case for Carrying and Storage

- **Included with TA500**
- Impact and chemical resistant polypropylene construction
- Foam padded interior
- Physical dimensions: 10" x 7.87" x 2.38"
(254 x 200 x 60.5 mm)



Part Number: **TA500HR**

Protective rubber holster

- **Included with TA500**
- Replacement rubber holster
- Made of durable synthetic rubber material
- Physical dimensions : 6" (H) x 4" (W)x 1.5" (D)
(158 x 100 X 37 mm)
- Available in two colors: red or blue

