

# TA303

Diesel & Gasoline Engine Tachometer

Diesel  
CNG  
Gasoline



## Simple and easy to use

- ▶ Read RPM from the driver seat by connecting it to the cigarette lighter socket or from the engine bay by connecting directly to the battery.
- ▶ Select the number of cylinders and cycles for the engine.
- ▶ Press the calibration button to start reading RPM within a few seconds.

## How it works

The TA303 Smarttach is a tachometer designed for use on any engine equipped with an alternator, and only requires a simple connection to the electrical system (e.g. battery, alternator, cigarette lighter connector) to measure engine RPM. Taking advantage of the ripples generated by the alternator, the TA303 automatically calculates the relationship between the speed of the engine and the alternator ripples, and uses them to measure RPM on any piston engine regardless of its ignition system (diesel, CNG, propane, gasoline, etc.). The TA303 does not require direct contact or line of sight to rotating parts, reflective tape like with optical tachometers, mounting of special sensors or pickups, or other specialized equipment.

The TA303 comes with the cables to connect to the battery or other accessible power outlet, a cigarette lighter socket connector and 10' extension cable.

## Multiuse tachometer:

- ▶ Advanced technology for measuring RPM in Diesel and gasoline engines without complicated or lengthy setups, it works with any engine equipped with an alternator

## For use with:

- ▶ Diesel engines
- ▶ Gasoline engines
- ▶ CNG engines, and others

## Safe to use, it does not require:

- ▶ Contact with any part of the engine
- ▶ Maintaining line of sight of rotating parts
- ▶ Attaching reflective tape
- ▶ Placing optical or magnetic sensors on the engine

## Technical Specifications

### Display:

- ▶ Large 4½ digit LCD display
- ▶ Measurement unit indicator
- ▶ Number of cylinders indicator
- ▶ Engine cycle indicator

### RPM measurement:

- ▶ Range: 200 to 9,999 RPM
- ▶ Resolution: 1 RPM
- ▶ Accuracy:  $\pm 0.5\% + 1 \text{ LSD}$

### Response time:

- ▶ <300 mS (above 200 RPM)

### Input connector:

- ▶ BNC jack

### Cables and connectors:

- ▶ 3.0' (1.5 m) cigarette lighter socket connector
- ▶ 6.5' (2.0 m) with battery alligator clips
- ▶ 10' (3.0 m) extension

### Input voltage range:

- ▶ 8.2 to 42 VDC

### Power consumption:

- ▶ 0.15 Amperes maximum

### Dimensions:

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

### Weight:

- ▶ 12.4 oz. or 355 g (without cables)

### TA303 set includes:

- ▶ TA303
- ▶ Protective rubber holster
- ▶ Hard carrying/storage case
- ▶ Cigarette lighter socket connector cable
- ▶ Battery connectors cable
- ▶ Extension cable
- ▶ User manual
- ▶ 1 year parts and labor warranty

### Applications:

- ▶ Exhaust emission testing
- ▶ Exhaust noise testing
- ▶ Heavy equipment
- ▶ Automotive
- ▶ Agricultural
- ▶ Industrial
- ▶ Marine



Product designed and manufactured in Canada

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