

SportTach

2 or 4 stroke compatible

ADVENTIGNITIONS

Anaheim, CA USA

You've never seen anything like the SportTach. Check the specs and you'll agree. The SportTach features 3-EGT inputs Time of Day clock, and hole shot timers for the racer. A unique time stamped data logger is included. The SportTach can be used with most engines.

Three Different Tachometers

- ⚡ **Digital Tachometer**
Direct display up to 19,990 RPM
- ⚡ **Analog Tachometer**
Real-time, fast-updating display
- ⚡ **Maximum RPM**
Displays highest RPM for the current run

Five Different Timers

- ⚡ **Real-Time Clock**
Displays time of day, 12-hour format

More Timers

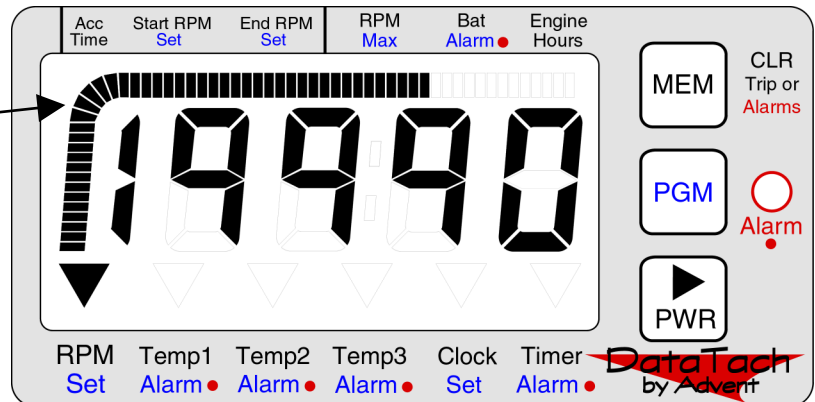
- ⚡ **Timer**
Start/Stop similar to a stopwatch
- ⚡ **Timer Alarm**
Program hours and minutes until alarm activates
Alarm: When time equals alarm setting
- ⚡ **Hole Shot 'Stopwatch' Timer**
Time is measured between two settable RPM's and displays with .01 second resolution
- ⚡ **Engine Hour**
Records engine running time up to 19,999 hours in 1 minute increments

Other Important Goodies

- ⚡ **Battery Meter**
Displays battery voltage
Alarm: When battery voltage goes below set limit

Fast Updating Analog Tach

(Actual Size)



- ⚡ **3 Temperature Meters**
Connect up to 3 probes to measure any temperature sources such as EGT, Water & Air
Alarm: When any temperature probe goes above its set limit

- ⚡ **Data Logger stores information about engine**
The data logger stores information about your last "Run". It includes acceleration time, Max RPM, Length of the "Run", and each sensor's max values.

- ⚡ **Watertight & Vibration Proof**
Watertight and unbreakable nylon case. Electrical connectors have positive latches and 'O' ring seals to prevent water intrusion

⚡ **Alarm function associated with feature**

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More detailed explanation of features

Three Different Tachometers

Digital Tachometer

The. The digital display is best for making accurate measurements during tuning and service work or riding on flat water at a constant speed. If the RPM is varying, the digital display will look like a blur. you won't be able to read it.

The analog display is best when the engine is under load and the RPM is moving over a few hundred or more RPM range. The analog display gives you a quick RPM and range of quick movement in engine RPM that the brain can understand quickly.

Analog Tachometer

The Analog Tachometer and the Digital Tachometer are both displayed at the same time, see page 1 picture. The Analog Tach offers a stable and quick RPM reference while operating the vehicle.

Maximum RPM

After completing a "Run", select the 'Max RPM' mode to view the highest RPM value the engine reached on that "Run". An interesting use of this function is that if you select 'Max RPM' and then do your "Run", you will see the current maximum RPM in real time. The display will present the highest RPM reached up to this point in the "Run". Each time you start your engine, a new 'Max RPM' measurement is started. This means that 'Max RPM' starts when the engine starts and ends, but holds the highest RPM reached, when the engine is stopped.

Five Different Timers

Real-Time Clock

The clock is a 12-hour-format digital clock. The clock is provided as a convenience but is also the basis for other important measurements within the SportTach.

Timer (Elapsed time)

The Timer is used to keep track of how much time has passed since the timer started. This timer could be used to monitor how long you have been out on your "Run" or pleasure "Run", or how long it took to travel between to points.

After the Timer is reset it will automatically start when the engine starts and run continuously (engine running or stopped) until it is reset as described above.

Timer Alarm

A Timer Alarm is available to alert the rider when the preset alarm time is reached. For instance, if you want to start your return trip at 2 hours 35 minutes after the "Run", the alarm LED will light at that time.

Hole Shot 'Stopwatch' Timer

This is a powerful feature that can help you improve you race skills in an area that really counts. The hole shot is often where races are won or lost. The 'ACC TIME' function measures the time it takes you to accelerate between a low starting RPM up to the upper, ending RPM.

The user can program any starting and ending RPM values into the ACC TIME registers.

As an example, set the 'Starting RPM' to 3200 RPM and the 'Ending RPM' to 7100 RPM. Out of the hole, when the engine accelerates through 3200 RPM the timer starts. The timer runs until the engine reaches the 7100 RPM ending point where the timer stops. The time recorded is the amount of time at it took the engine to accelerate between 3200 and 7100 RPM.

Engine Hour

The engine hour meter records the total time the engine has been run. The timer is capable of recording up to 19999 hours and 59 minutes in one-minute increments. The digital display indicates full hours while the analog bar graph indicates minutes. This is useful for service and maintenance reasons, not to mention just knowing how much use the vehicle has gotten. The engine hour meter can not reset by the customer.

Continued...

Battery Meter

The SportTach has a built-in voltmeter to monitor the battery condition. This is an important tool to confirm the overall quality of your battery for safety maintenance reasons. It could save you from being stranded in an undesirable location.

Another feature of the voltmeter is its alarm. You can set the battery voltage alarm with a specific minimum allowable voltage, from 5.0V to 12.3V. The Alarm will watch the battery voltage and when it discharges to that value the Tachometer switches the display to the 'Bat' function and blinks the display to warn you that the battery is nearing the end of its charge.

If you are running a total loss ignition, the SportTach's battery monitor, plus limit/alarm, is the most important instrument you can have with you. You can keep a constant eye on the battery's charge and know when you must start back to base camp before your engine quits.

3 Temperature Meters

The SportTach/EGT includes provisions for up to 3 temperature probes to be attached. These are thermocouple type probes and can be used to measure temperatures up to 1600 degrees F.

Each probe has an alarm function to monitor the maximum temperature of the probe. Each probe has a separate alarm register that may be set to any value up to 1599 degrees F. This allows each sensor to measure widely different temperatures and to set its alarm to an appropriate value for that probe.

Data Logger stores information about engine

The logger records the last six "Runs". A "Run" is defined as the time the engine starts until the engine is shut off. The resulting data collected during this time (the "Run") is stored and can be recalled at a later time directly on the Tachometers display. The Logger data is comprised of:

- 1 - Starting time of day (time stamp "Run")
- 2 - Acceleration time (hole shot)
- 3 - Maximum engine RPM (minimum 3 seconds)
- 4 - Length of "Run" (99 minutes 59 seconds maximum)
- 5 - Maximum Sensor 1 Temperature (EGT model only)
- 6 - Maximum Sensor 2 Temperature (EGT model only)
- 7 - Maximum Sensor 3 Temperature (EGT model only)

The SportTach stores and can display all the data from the last 6 packets ("Runs"). The Time-of-Day with the other data indicates the time the data began recording. The most recent data will have the latest time, while the oldest data will have the earliest time. If you exceed the 6 "Run" limit. The new "Run" is stored and the oldest "Run" is lost keeping the last 6 "Runs" stored in the SportTach.

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