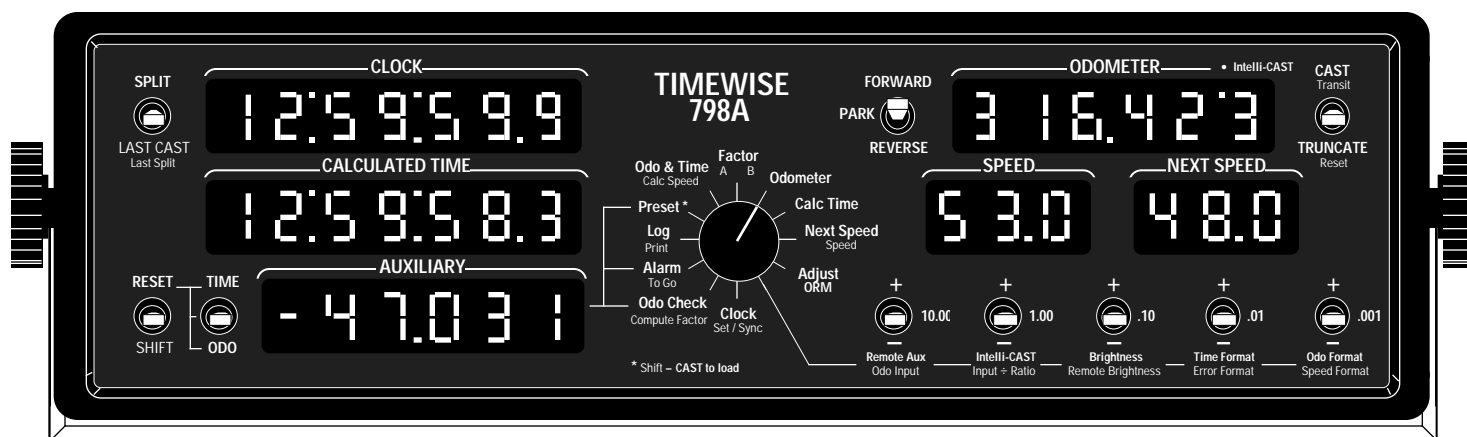


The Standard in Rally Computers

THE TIMEWISE 798A



The Timewise 798A sets new standards in rally computer performance and accuracy. Extensive engineering and design, as well as careful manufacturing, assure functional and reliable operation in the demanding environment of competitive road rallying.

The 798A is constructed in a handsome enclosure that provides physical and electrical protection against the rigors of the rallying environment. Its low profile and sturdy mounting bracket make installation easy.

A single rotary switch eliminates a confusing array of closely spaced pushbuttons. Ample LED intensity adjustment (with separate adjustment for the driver's display) and logically placed, non-slip, tactile feedback, toggle switches make the 798A easy to use whether you run in daylight or in darkness.

The main *Odometer* counts to 999.999 miles (kilometers). An audible odometer alarm can signal anywhere within this range. For incremental mileages, a resettable auxiliary odometer also counts to 999.999 miles. You select whether the "thousandths" digits in the odometers are always visible, never visible, or just when the 798A is split.

Dual odometer signal inputs, each with two correction factors, provide unsurpassed flexibility. Built-in signal conditioning and a pulse divider allows operation from OEM electronic speedometers. Intelli-Sense™ signal monitoring notifies you should a sensor fail. Six-digit factors correct mileage to within .001 mile after 50 miles ($\pm .002\%$). No other rally computer achieves such versatility, adaptability, and accuracy.

The *Clock* is easily set to any hour, minute, and second (or hundredth of a minute). You can also display time in tenths of seconds or thousandths of minutes...always, never, or just when split. You can even alternate between counting modes after the clock is set. Synchronization to a time standard can be performed at any time...either manually or automatically to a master Timewise checkpoint clock.

The *Calculated Time* clock can be adjusted in increments as small as .001 minute for minor corrections. Multi-hour pauses for lunch breaks and long transits are also easy to enter.

The remote driver's module can display the *Error* in either seconds or hundredths. To accommodate personal preference, the counting mode may be different from the main unit, and lateness may be shown with a negative sign or as a value decreasing from 100 (i.e., 99.99, 99.98, 99.97, etc.). An *Auxiliary* display on the driver's module can show a speedometer, the CAST, your speed difference from CAST, an odometer (main or auxiliary), or the countdown distance to the alarm.

Adjustments to either "live" or split values are allowed. For example, you can add or subtract distance from the split odometer as you drive...the 798A will automatically correct the internal "live" distance by the same amount. To confirm adjustments, resettable "amount of change" memories separately accumulate time and distance corrections.

The 798A can automatically correct the calculated time when you make odometer adjustments. You may even select the speed used for the calculation. Moreover, the 798A uniquely allows you to retroactively change the mileage and/or speed at the last CAST execution point, with automatic correction to the calculated time!

Rally speeds from 0.0 to 399 allow transit zones, warp speeds, and high "kph" CASTs. Optional 0.01 mph/kph CAST resolution is available.

Preset values of calculated time, speed, and distance can be loaded simultaneously at a reference. An optional datalog saves the 56 most recent splits and CASTs for later review. You can also get an RS-232 interface to download the data to a computer.

Superb construction, unparalleled accuracy, unsurpassed versatility, simplicity of operation...that's why the Timewise 798A is the new standard in rally computers.

798A FEATURES

- Independently resettable main and auxiliary odometers
- Odometer resolution (.01/.001) selection at any time
- Time format (hundredths/seconds), and display resolution (units/tenths) selection at any time
- Error format, display resolution, and lateness style (-.001/ 99.999) selection at any time
- Selectable CAST range of 0.1 - 99.9, or 1 - 399 (mph or kph)
- Park and reverse (off-course) audible warning alarm, with disable
- Pause and gain adjustments of .001
- Automatic correction of calculated time when adjusting odometer
- Auxiliary "elapsed" calculated time clock
- Temporary recall of "live" clock while split
- Time of day auto-synchronization to Timewise clocks
- Adjustments to split or live values
- Odometer and calculated time truncation
- CAST correction for current section (Retro-CAST™)
- Instant recall of previous split data
- Instant recall of previous CAST data
- Adjustment of previous CAST odometer reading with automatic correction to calculated time (Post-alignment™)
- Intelli-CAST™ mode selection at any time
- Optional datalog memory for 56 splits, CASTs, resets, etc.
- Optional RS-232C for downloading datalog to printer/computer
- Preset Calculated Time, Speed, and Odo w/ simultaneous load
- Battery backed Real Time Clock
- Audible odometer alarm, with countdown distance display and "stand-off" warning distance.
- Two odometer signal inputs with Intelli-Sense™ failure warning
- Two independent, 6-digit odometer factors per odo signal input
- Automatic odometer factor calculation (with conditional usage)
- Built-in odometer input signal conditioner and frequency divider (for direct hook-up to high pulse rate OEM odometer signals)
- 0.4" high, ultra bright displays for daytime viewing
- Extra-wide display brightness adjustment, including "off"
- Separate brightness adjustment for driver's module
- Transit zone mode, with retroactive & undo capabilities
- Separate "amount of change" memory for odometer and calculated time adjustments
- Separate reset for main odometer, auxiliary odometer, auxiliary calculated time, amount of change memory for distance, and amount of change memory for calculated time
- Driver's display of error and one of: main odometer, auxiliary odometer, auxiliary calculated time, actual speed, CAST, speed difference from CAST, alarm countdown, or "off"
- External activation of split/lap split, CAST, and park
- Optional .01 mph resolution for CASTs
- Optional remote selection of driver's Auxiliary display parameter
- Sturdy metal case with mounting bracket
- Designed for harsh automotive environment

● Two-year warranty on parts and labor

TECHNICAL SPECIFICATIONS

Design	CPU type: 8 bit, DS87C530 operating @ 11.0592 MHz Memory: Program: 16K bytes (8K used) Data: 1284 bytes Displays: 0.4" tall, ultra bright, high efficiency red LEDs	Driver's Module Information	Error: -9.999 (-9:59.9) to 59.999 (59:59.9); or, 40.001 (40:00.1) to 99.999 (99:59.9) then .000 to 59.999 (59:59.9) Outside the above ranges: "EEEE" up to six hours early "LLLL" up to six hours late Odometer (Main or Aux): 0.00 to 999.99 miles (km) Speedometer: 0.0 to >300.0 mph (>480.0 kph) Speed difference: -299 to 299 mph (kph)
Accuracy	Odometers: ± 0.001 mile (km) up to 50 miles (km) Clock: ± 0.01 minute up to 12 hours (24 hours typ.) Calculated Time: ± 0.01 minute up to 100 CAST changes Error: ± 0.01 minute up to 50 CASTs or 6 hours Speedometer: ± 0.1 mph (kph) up to 175 mph (280 kph)	Electrical	Power requirements: 8 - 15 VDC; 1.5 amps max. Fuse: 2 amp; type 3AG or equivalent
Displayed Information	Odometers: 0.000 to 999.999 miles (km) Clock: 12:00.000 to 11:59.999 (:59.9) Calculated Time: 12:00.000 to 11:59.999 (:59.9) Auxiliary Calc. Time: -59.999 (:59.9) to 59.999 (:59.9) Speed (Active CAST): 0.1 to 99.9, or 1 to 399 mph (kph) Next Speed: 0.1 to 99.9, or 1 to 399 mph (kph) Factor: 0 to [0.00]999999 mile (km) per pulse Auto Factor range: 0.001 to 999.999 miles (km) Alarm Mileage: 0.00 to 999.99 miles (km) Delta Counters ("Amount of Change") Mileage: -99.999 to 999.999 miles (km) Time: -59.999 (:59.9) to 59.999 (:59.9) Preset Odometer: 0.000 to 999.999 miles (km) Preset Speed: 0.1 to 99.9, or 1 to 399 mph (kph) Preset Calculated Time: 12:00.00 to 11:59.99 (:59)	Environmental	Storage temperature: -35°C to 125°C Operating temperature: -30°C to 65°C Humidity: 90%, non-condensing
		Physical	Enclosures: Aluminum Front panels: Scratch protected polycarbonate Rear panel: Photo-etched anodized aluminum Main computer size: 11.35" W x 3.35" H x 3" D 12.15" W x 3.75" H x 3" D w/ mounting bracket and knobs Main computer weight: Approximately 2 lbs. 3 oz. Driver's module size: 3.1" W x 2.1" H x 2.50" D Driver's module weight: Approximately 5 oz. Driver's module cable length: Approximately 3.5 ft.

Model 798A Rally Computer with driver's readout.....
 Option 798A/1 Datalog of 56 CASTs, splits, resets, transits, etc.....
 Option 798A/5 Adjustable Auxiliary odometer.....
 Option 798A/7 Remote selection of driver's Auxiliary display parameter.
 Model 217-15 Super-sensitive magnet sensor (to sense magnets on wheel or shaft) with 15 ft cable and modular plug .

TIMWISE

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Specifications subject to change