

Miles more than just a Rally Tripmeter

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GaugePilot



RALLY PRO



RALLY



CLUBMAN

2018
COMPETITION
RANGE

Introduction

GaugePilot is the ultimate in legal rally equipment cleverly combined with the looks of a traditional tripmeter.

Dimensionally identical to a 1950's Halda SpeedPilot, GaugePilot is an easy-to-use multi-functional Rally instrument that is more accurate, more intuitive, and which also has your back.

A suite of different Rally applications allow you to match your GaugePilot's capabilities to the navigational needs of an individual event. This not only eliminates unnecessary complexity but, in combination with our unique Regulation Mode, also allows a single instrument to satisfy all your rallying needs.

Ease of calibration and simple trimming ensure your odometers are spot on, minimising navigation errors and you can easily change between kilometres / miles and pulse sensor inputs without needing to recalibrate.

And GaugePilot's unique engine data and warning applications give a competitor added confidence to succeed in any rally event, knowing that an underlying mechanical issue should be brought to their attention.

Proven during the last three years in the world's premier classic rallies, including the Rallye Monte-Carlo Historique, Mille Miglia, Targa Florio, Le Carrera PanAmericana, the Peking to Paris, Trans America Challenge, and many more.

Each and every GaugePilot starts life as a solid billet of aluminium and is finely crafted in the UK where we also design, engineer, and continue to refine our instrument. Our powerful electronic platform allows new features to be added via software updates, and its colour super-bright screen is easily viewable in all lighting conditions, thanks to a bubble lense and aviation-grade anti-reflection coatings.

Three period-style control knobs with both press and turn functionality provide for the navigator's interface to the instrument (with the option of a remote control).

Rally applications available include:-

Farina, a table-driven average-speed time-to-finish rally computer for complex european events such as the Mille Miglia.

TwinTime, an integration of a twin odometers, rally time, and Regularity / Jogularity / Lap aware stopwatches, into a single screen.

RallyMaster, an average-speed computer with its easy to follow too-fast too-slow needle.

TwinMaster, a digital emulation of the classic Halda instrument.

SpeedPilot, an average speed computer with single odometer.

With three competition models to choose from, GaugePilot can make the difference whether you are a beginner or an expert.



The Competition Range
RALLY PRO

£1699
Includes Driver's Display
RALLY

£1199
Supports Driver's Display
CLUBMAN

£799
**RRP*
Including VAT**
Finish
Anti-reflection treatment
**Rally Applications
Installed**
Rally Benefits
**Other Applications
Installed**
Sensor Interfaces
Black
Triple Coating
**TwinMaster
RallyMaster
TwinTime
Farina**
**Regulation Mode
Easy Calibration
Easy Calibration Trim
2 Pulse sensor inputs
Install in up to 4 cars**
**Twin Stopwatch
32 Gauges with Alerts
Datalogger
Service Reminders**
Digital & Analogue
Black
Triple Coating
**SpeedPilot
TwinMaster
RallyMaster
TwinTime**
**Regulation Mode
Easy Calibration
Easy Calibration Trim
2 Pulse sensor inputs
Install in up to 4 cars**
**Twin Stopwatch
32 Gauges with Alerts
Datalogger
Service Reminders**
Digital & Analogue
Black
Basic
**SpeedPilot
TwinMaster
RallyMaster**
**Regulation Mode
Easy Calibration
Easy Calibration Trim
2 Pulse sensor inputs**
**Twin Stopwatch
8 Gauges with Alerts**
Basic Analogue

*Prices subject to change without notice. Current UK VAT rate is 20%.
VAT not charged to non-EU customers or to EU businesses who are VAT
registered in their own EU country other than the UK.

SpeedPilot

A digital recreation of the original 1950's mechanical average speed computer - track your progress using the precision of the GaugePilot RallyEngine™ with the classic style of the original Halda SpeedPilot.

As long as you keep to the set average speed, the minute hand and pilot hand will synchronise - exactly if you are on schedule. If not, the hands will separate and will show directly in minutes how far ahead or behind the required arrival time you are.

Your required target speed can be set to ¼ unit accuracy. Speed changes within stage can be easily pre-selected and entered and activated via the GaugePilot control knobs, with on-screen helpers guiding you at every step.



TwinMaster

Following a traditional format, the TwinMaster application pays homage to the iconic mechanical rally instrument of the same name that was campaigned during the 50's, 60's and 70's in the topflight of world rallying. The clear and simple-to-read rolling odometers capture the watch-like motion of the classic instrument without the complications of changing gearwheels and worn cogs.

Rally Time is discreetly displayed on screen to bring another key piece of information into the navigator's view.

Odometer mileage can be independently adjusted allowing corrections against landmarks enroute, and odometers driven in reverse or disengaged - just like the original.

RallyMaster

RallyMaster provides the driver and navigator with a clear and easy to follow needle indicator of performance against target average speed, specified to 2 decimal places.

The Needle indicates your time accuracy against your target average speed up to an error of +/- 20 seconds. Needle to the right - you're going too fast. Needle to the left - you're going too slow. Beyond 20 seconds the needle is replaced by a clear and easy to read numerical display.

Speed changes within stage can be easily pre-selected and entered and activated via the Gaugepilot control buttons, the on-screen helpers guiding you every step of the way.



TwinTime

A new paradigm in rally computer for regularity and jogularity events, TwinTime delivers twin odometers, rally time, and a rally time synchronised stopwatch in a clear and simple to view format, removing the need for multiple devices across the dashboard.

TwinTime features three different operating modes - Regularity, Jogularity, and Lap - each optimised to suit the event's format, with a fourth mode, Stage, planned for 2018.

All feature a stopwatch synchronised to rally time, avoiding accumulation of sub-second errors during an event. And all feature a history window showing rally time and stopwatch value at the last ten controls.

Farina

Make complex events such as the Mille Miglia less stressful and improve your results with Farina, an advanced table-driven rally computer available only on the GaugePilot Rally Pro with its separate driver display.

Farina uses the GaugePilot Rally engine to simultaneously track average speed for a whole stage ("CO") whilst tracking average speed on inner stage controls ("PC" and "PM"), and intelligently provides relevant information to the driver and navigator depending upon the current position within the stage.

Data is entered ahead of time into a table using a format representative of that provided to drivers during the Mille Miglia, which may also be edited on-the-fly during an event if elements are modified ahead of, or even during, a stage.



Up to 300 CO/CT/PM/PC/startPC row entries can be pre-loaded into the table, representing up to 25 individually accessible CO stages, at any one time.



During an event, stage elements are displayed in a visual format representative of that used in the Mille Miglia route book, reducing navigator workload and reducing the probability of human error.



The Driver's Display is an essential companion to Farina, providing the driver with the intuitive RallyMaster too-fast too-slow needle display and count down odometers to easily track progress.



Within average speed stages, an audible warning is triggered at 30 seconds, 15 seconds, and then a ten second countdown to better allow the driver to synchronise themselves to the control timing.

This uses warning output 2 so an accessory buzzer is essential.

As with all GaugePilot applications, Farina is race proven, having allowed teams to improve their results substantially in the last 3 Mille Miglia and Targa Florio, including the top-placed british crew (34th overall) in the Mille Miglia 2017.

Regulation Mode

Developed with the co-operation of leading rally regulators and organisers, the GaugePilot unique Regulation Mode time lock provides you flexibility to compete at your very best in the UK and the rest of the world without changing equipment.

Zero penalty points awarded for use on Hero-CRA, Rally Round and ERA events, where trip meters are allowed. When GaugePilot is locked down into Regulation Mode its specification is restricted as follows:-

Mileage display is limited to two decimal places (a mechanical odometer is simulated, the graduations usually displayed on the 1/100 digits are no longer shown)

No display of speed or average speed anywhere on the GaugePilot

SpeedPilot, RallyMaster and Farina (average speed) applications are not available. TwinMaster and TwinTime (dual odometers) become the primary rally applications.

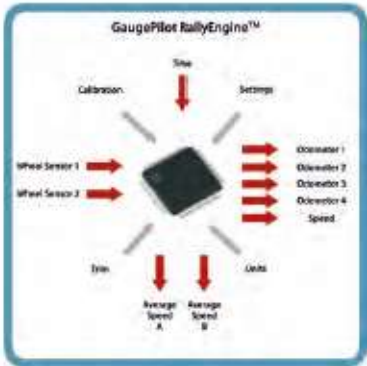


RallyEngine™

Every GaugePilot includes our unique RallyEngine - technology that we have developed to track time and distance with supreme accuracy.

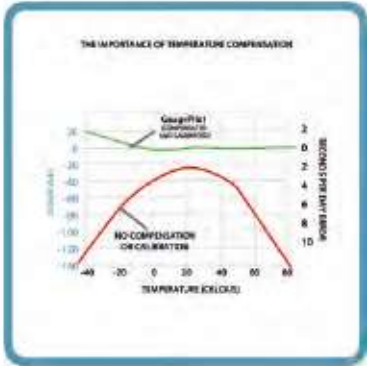
The RallyEngine measures distance by knowing how far the vehicle travels for each pulse received.

The distance covered per pulse is stored with such accuracy that the cumulative rounding error over 2½ million pulses is less than 1 cm. To put that another way, at one metre distance per pulse, that is less than 1cm internal error over 2,500 km of rallying.



Time is just as important as distance. The RallyEngine ensures that your GaugePilot functions just as accurately in the desert heat as in winter alpine stages.

You might be surprised to learn that a regular digital clock can gain or loose many seconds a day if it experiences extremes of temperature. The RallyEngine clock is not only individually calibrated in our laboratory to keep perfect time, but it is also temperature compensated. The clock constantly corrects itself for the temperature of the unit, keeping you on time, all the time.



Miles more than just a Rally Tripmeter

GaugePilot



Miles more than just a rally tripmeter...

GaugePilot can display up to 24* different gauges using a mixture of directly and indirectly* connected sensors.

Choose from a range of Temperature Gauges, Pressure Gauges, Speedometer, Rev Counter, Air Fuel Ratio, and more.

Choose between metric and imperial units, for temperature, pressure, and speed, or perhaps you wish for the clarity of a digital speedometer? Set up your GaugePilot gauges exactly how you want them to be.

Our standard gauge faces are reminiscent of the classic Smiths gauge style used in many classics.

Digitally re-created, our gauges are accurately calibrated across their operating range, and are the perfect way to add accessory gauges to your classic.

Directly connect two temperature* and one pressure sensor, as well as RPM from the coil, speed from the wheel pulse sensor, and fuel level from a dedicated sender. Indirectly*, connect Air Fuel Ratio (LC-2), Thermocouple (TC-4), and 0-5V inputs (SSI-4 Plus) using the Innovate Motorsports MTS protocol.

All the data sent to the gauges can also be used by the built-in datalogger* and alert system, giving you coolant temperature, oil temperature, oil pressure, and battery voltage warnings amongst others.



*Clubman model supports directly connected sensors only, has one temperature input, no datalogger, and is limited to 8 gauges.

...GaugePilot has your back

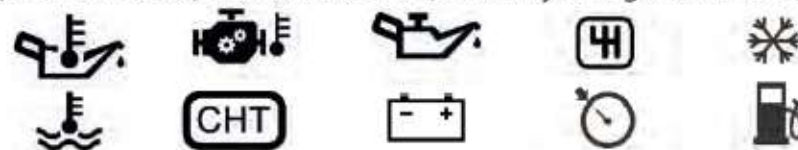
Alerts are active at all times, displaying on-screen and/or triggering one of two external outputs designed for warning light or buzzer no matter which application is currently in use.

On-screen alerts can be assigned Red or Yellow, with Red alerts having priority over Yellow alerts.

If enabled, the ice warning will alert for 5 seconds and then clear with an ice icon remaining on the screen as a reminder until conditions improve.

For the external warning outputs, we recommend a warning light on output 1, and a buzzer on output 2.

Alerts, their threshold, and the units used, are easily configured within setup.





"We used the GaugePilot in 'Flighty' throughout the MM - it was quite simply amazing!"

The GaugePilot transformed our capability in average speed trials (PMs), whilst ensuring that we were always on track for COs and CTs. We are delighted to report that we were the highest placed British crew and that we classified 34th overall, out of 450 entries."

Frederica & Simon Kirkpatrick & 'Flighty' our 1928 Grand Prix Bugatti!

Highest placed British Crew, Mille Miglia 2017



"Thanks to Simon Hambly and Nigel Cousins of GaugePilot for designing and tutoring us in the use of such a superb, clever rally instrument - it made life really easy."

The Mille Miglia was a hugely enjoyable experience for us made possible by you all, so thanks again for that and hopefully, we'll be back next year."

Mark and Nicola Aldridge

Mille Miglia 2017

How to Buy

autochron

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clive@autochron.co.uk

Need more information?

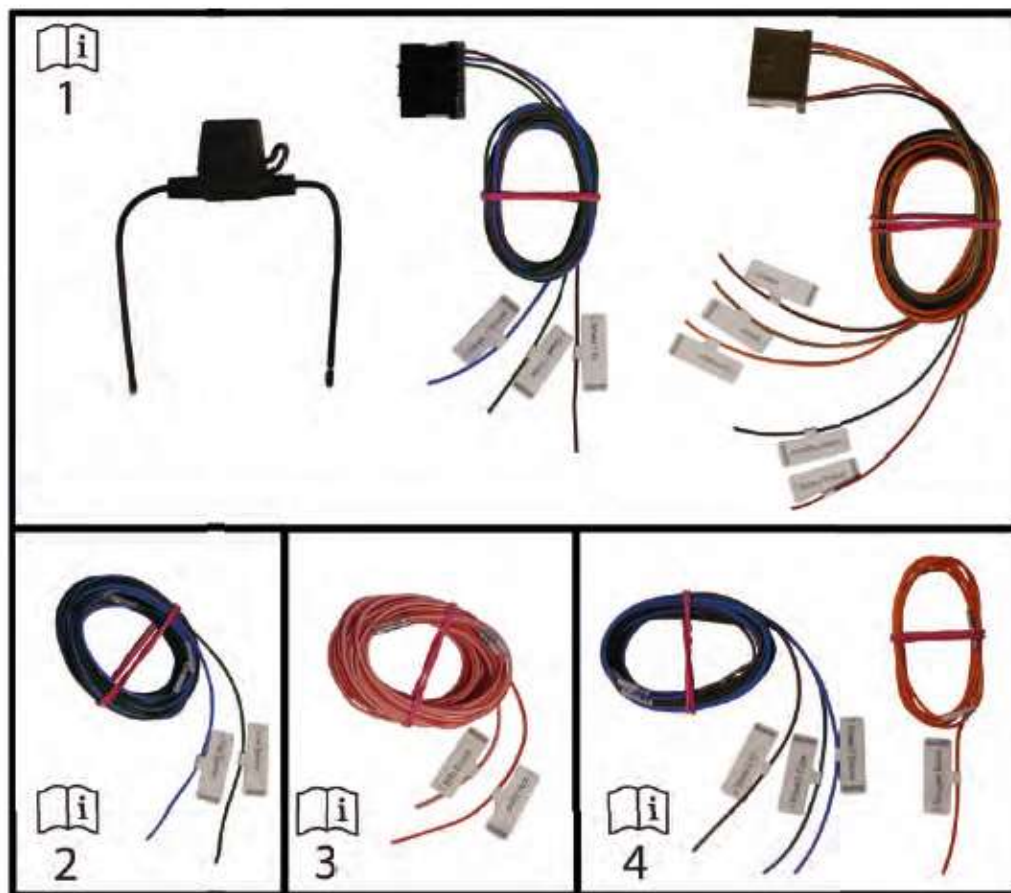
Talking to us is easy:

Call +44 1256 637360 and talk directly to Nigel or Simon, the inventors.

Or email us at enquiries@gaugepilot.uk

We can also demonstrate our instrument and train you in its use at our Salisbury location. Please call to make an appointment.





Every GaugePilot is supplied with a clearly labelled wiring loom.

Pack 1 : Essential Wiring. 5 Wires pre-connected to the Brown plug to connect to Battery Positive (via the provided fuse), Battery Negative, Chassis, Ignition-switched live and Lighting-switched live, plus 3 wires pre-connected to the Black plug to connect to a pulse sensor.

Pack 2: Optional fuel sensor wires

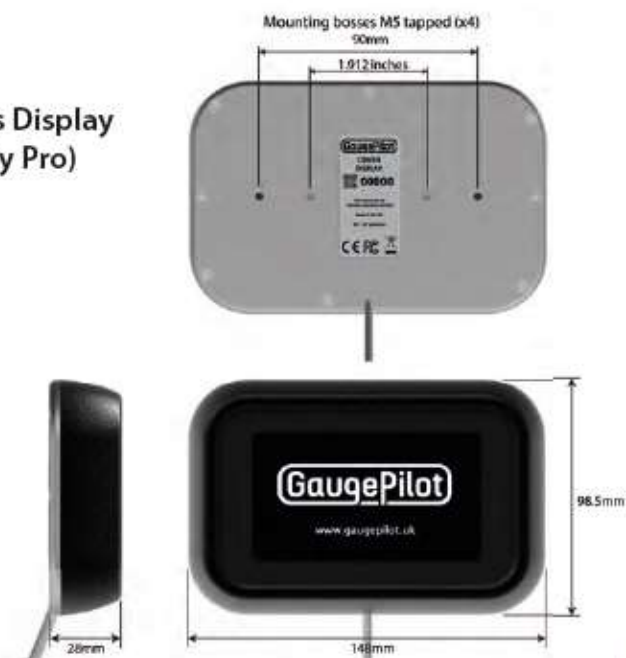
Pack 3: Optional RPM gauge wires

Pack 4: Optional 2nd wheel sensor and remote navigator switch wires

GaugePilot Instrument
(No USB on Clubman)



Driver's Display
(Rally Pro)





GaugePilot Competition Instruments

Rally Pro	£1699
Rally	£1199
Clubman	£799
Upgrade from Rally to Rally Pro (includes Driver's Display)	£600

Rally sensors

GP-S04	Pulse Sensor Kit	£36
GP-GPS	GPS pulse sensor kit	£228
BR1	Speedometer cable sensor	£30

Gauge sensors (Complete with connectors and wire)

GP-S01	Ambient Temperature Kit	£30
GP-S02	Intake Temperature Kit	£30
GP-S03	Oil/Coolant Temperature Kit	£30
GP-S05	Oil Pressure Kit	£60

Accessories

GP-A01	Carry Case	£50
GP-A02	Mounting Bracket	£19
GP-A04/x	Remote Nav Button Kit (Inline or Panel)	£49
GP-A08	Hotel PSU Kit	£30
GP-A09	USB PSU Kit (requires 2 USB powerpack, not supplied)	£19
GP-A16	Buzzer Kit	£15
GP-A17	Warning LED Kit	£18
GP-IA11	Innovate MTS interface Kit	£10
GP-DA01	Suction mount for Driver's Display	£50

Installation in 2nd-4th car

GP-L15/x	Loom for 2nd-4th car	£60
GP-DL02/x	Driver's Display loom for 2nd-4th car (Inline or Panel)	£20
GP-A05/x	Remote Nav loom for 2nd-4th car (Inline or Panel)	£18