



RALLYMETRIE



RALLYMASTER SPORT

Assembly and operating instructions

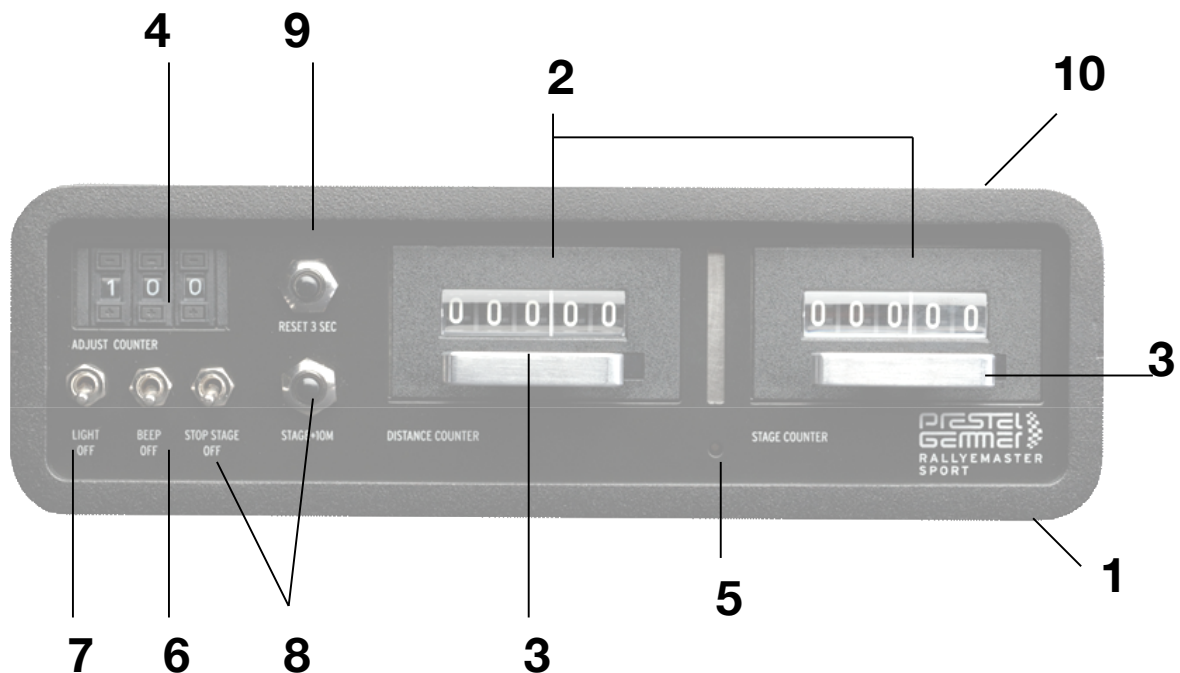
Congratulations on your purchase of a high-quality product from PRESTEL+GEMMER. The RALLYEMASTER SPORT is an electromechanical distance counter with extremely precise roller counters. It measures the distance covered with an accuracy of 10m (1m). The device is internationally approved for historic events!

The technical data of your RALLYEMASTER SPORT:

Dimensions: W/H/D 195/57/90 mm (only housing, without switches)
 Operating voltage: 12-14 volts
 Upstream installation: 1 ampere fuse
 Minus: connected to earth

The operating elements of your RALLYEMASTER SPORT:

1. ON/OFF switch
2. Roller counters 1+2, for whole and partial distance
3. Mechanical pushbutton to set the counter to zero
4. Coding switch to calibrate counters
5. Loudspeakers for 100 m beep
6. Switch for 100 m beep
7. Switch for night lighting
8. Pushbutton and Stop-switch to manipulate the "Stage" device in steps of 10 m + or stop it
9. Pushbutton to reset the system
10. System connector input



Cable assignment of your RALLYEMASTER SPORT:

Red	Positive pole 12-14 volts with 1A fuse
Black	Earth vehicle
Brown	Positive pole sensor 5 volts
Green/Yellow	Earth sensor
Blue	Signal sensor

Please note:

As standard, the RALLYEMASTER SPORT distance counter is delivered without a sensor. In general, only sensors with an operating voltage of 5V are to be connected. **When using the VDO sensor**, a 3 kOhm resistor must be connected between the blue and the brown cable of the RallyeMaster.

If you connect another sensor afterwards, it might be possible that this resistor has to be removed! For this purpose, please observe the connection details of the respective sensor manufacturer.

Sensors that can be used:

For your RALLYEMASTER SPORT, different sensors / pulse generators with two or three connection cables can be used:

- speedometer cable sensors
- wheel sensors
- cardan shaft sensors.

Assembling your RALLYEMASTER SPORT:

Fasten your RALLYEMASTER SPORT in such a way that the passenger and the driver can clearly see the device.

Please make sure that the assembly is carried out in such a manner that the device does not cause any additional risk of injury in the event of an accident! The M4 threaded bushings at the top of the device are used to assemble the distance counter. **Please do not use any screws with a thread length of more than 15 mm!**

Assembling the VDO sensor:

Connect Blue/Red to Blue RALLYEMASTER COMPETITION (signal sensor).
Connect Brown to Green/Yellow RALLYEMASTER COMPETITION (earth sensor)
Connect Black to Brown RALLYEMASTER COMPETITION (positive pole Sensor)

Testing / setting your RALLYEMASTER SPORT:

1. Set the ON/OFF switch to "ON".
2. Set the two coding switches to "100".
3. Slowly move the vehicle for several metres. (The counters must start to run!)
4. Set the counters to "0".
5. Press the pushbutton "9" (reset) once for at least 3 seconds (until the signal sound can be heard) in order to delete any pulses stored, if any, from the electronics.
6. Drive a specified measuring distance (at best 1,000 m, comparison with navigation device or reference distance of the rally organiser) with a constant speed of max. 50 km/h.
7. Note down the value shown on the counter after the measuring distance has been completed and enter this value in the coding switch "4".

Thus, your RALLYEMASTER SPORT is calibrated on both counters.

If your RALLYEMASTER SPORT is used in several vehicles, repeat this procedure for each vehicle and note down the respectively set value. If a measuring distance is available at an event, you can exactly calibrate your RALLYEMASTER SPORT to the reference measuring device of the rally organiser by applying this procedure!

Average monitoring using the RALLYEMASTER SPORT and an average computer:

The RALLYEMASTER SPORT can also be used to monitor the average. Using an optionally available cable set, an average computer can be connected. The automatic synchronisation of data can thus be carried out precisely. The average computer must be equipped with 10 m signal processing and an operating voltage of 12 V.

Please note:

The connected average computer interacts with counter 3 (counter in the centre); here, calibration in steps of 10 m each must be performed (as described above).

If you use the "Back" function with the sound signal, the 100 m signal sounds despite the standing devices!

Manual average monitoring:

In addition, the RALLYEMASTER SPORT is equipped with a connectible 100 m beep for manual average monitoring (switch 9).

Have your RALLYEMASTER SPORT always switched on during a special stage (SS). Switching off the device empties the system memory after a certain wait and thus the pulses previously brought in! Therefore, resetting the counters when starting a new SS is optimal in order to ensure the highest possible measuring precision.

If you have any questions about your new RALLYEMASTER COMPETITION, please do not hesitate to contact your specialist dealer or our technical service.

PRESTEL+GEMMER offer you many additional products for historic rally and racing time measurement as well as passenger boards and accessories. Learn more about our product range at

www.prestel-gemmer.de.

- MECHAICAL TRIPMASTERS
- LOOPTIMERS FOR MECHANICAL WATCHES
- RALLYEBOARDS
- ACCESSOIRES
- STOPWATCHES
- WRISTHOLDERS