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### RR400 rally timer sales price for regularity rally – 12/2017

CRISARTECH propose to configure your regularity system tailored:

- **RR400 timer** : the calculator, 4"3 TFT colour display with touch screen:



Delivered with connectors for:

- o power/communication with interface and/or modern vehicle (after 2007 approximately) with OBDII socket. Precision depends on vehicle. Please ask us for a list,
- o connect precision GPS Navilock
- o connect USB drive for updates and files transfer.



It can be used as it is in a modern car (after 2007 approximately) for rallies "New Energy", learning or reconnaissance before rally. For an older vehicle, it is necessary to add a power supply and a GPS (not very precise) or an interface for sensor (s) wheel

- optionally, function of **automatic distance corrections by GPS**, during race from the way points taken during the scouting. The **accuracy is about 1 meter**. *Exclusive CRISARTECH function which proved its worth at the Monte-Carlo rallies!*
- **sensors and accessories interface**. 14x9x3.5 cm dimensions, it allow to add:
  - o wheel speed sensors. Directly compatible with positive pulses 3 wires sensors and passive 2 wires sensors (with magnet). For negative pulses 3 wires sensors and active 2 wires sensors, it needs only to add a resistor in the harness. Please ask us at order,
  - o remote 4 buttons keyboard,
  - o 10 leds module (HUD),

- infrared remote control with numbers (for correction, easy type in distances). Receiver can be integrated into interface (so the interface has to be placed near RR400) or externally placed under RR400 and then the interface can be placed in the glove box, for example,
- the buzzer guides the driver (accelerate / slow down). It can be integrated in the interface or placed externally with a connector. This way, it can be replaced by a link with the intercom during the RT. The pilot then has the sound indication in his helmet.

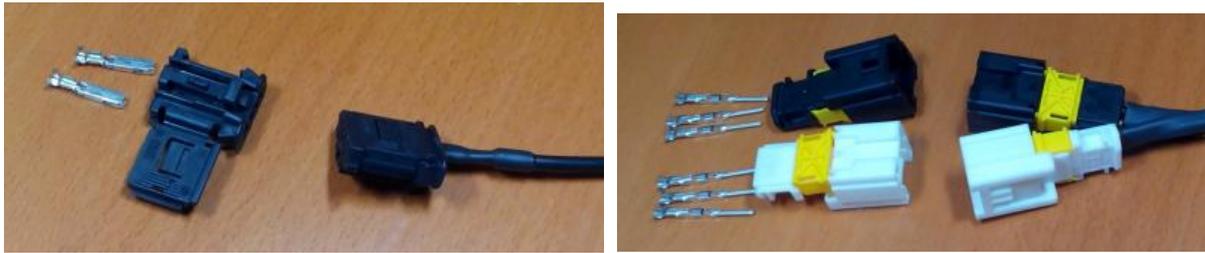
The wheel speed sensors harness is made with two 3 ways connectors (+, - and signal):

- black for right wheel,
- white for left wheel.

It can be simplified at order:

- no connector. The installer will use the connectors that he used to use,
- no white connector for left wheel.

For each old vehicle to be equipped, it is therefore necessary to add a power harness and a harness for each sensor (sold ready to plug or connector + crimp pins):



- **HUD 10 leds module:**



The **regularity** to the 1 / 10th of a second without leaving the road of the eyes!

- **infrared remote control** with digits to quickly and easily type correction distances:



- **remote keyboard** with 4 large buttons for basic functions (chrono, freeze, add or subtract X meters):



- rigid **suction cup** with double ball and aluminum arm :



The suction cup can be replaced by a fastening on the dashboard so as not to interfere with the pilot's vision.

- "**pilot display**" RP380: 4"3 TFT colour display:



- 10Hz **precision GPS receiver from Navilock**:



It allow you to:

- o very precisely synchronize the clock on the organization's one,
- o replace the wheel sensors in the event of failure (without loss of distance when swapping),
- o replace the wheel sensors if the co-pilot has frequent correction points or GPS correction option (accuracy is sufficient in this case).

**CRISARTECH sells GPS auto-correction files  
for some rallies like the Monte-Carlo Historical**

Purchase order, price inc French VAT, 12/2017:

Designation	Qty	U. price	Price
RR400 tripmaster / timer for regularity rally		745.00 €	
Option: distance auto-correction by GPS (GPS receiver included)		245.00 €	
Interface for 2 wheel sensors and accessories		225.00 €	
<u>Options that can be added to this interface:</u>			
- 10 leds HUD harness		33.00 €	
- 4 butons remote keyboard harness		15.00 €	
- integrated buzzer or	or	9.00 €	
- remote buzzer for intercom connexion (intercom modification not included)		18.00 €	
- remote receiver for IR remote control (under RR400)		18.00 €	
- harness with only one wheel sensor connector (instead of 2)	or	- 15.00 €	
- harness with no wheel sensor connector (use your preferred)		- 22.50 €	
- for HV, 12V power harness (with assembled and sheathed connector)	or	8.50 €	
- for HV, 12V connector and crimp pins		4.50 €	
- for HV, right wheel harness (with assembled and sheathed BLACK connector)	or	11.50 €	
- for HV, right wheel BLACK connector with crimp pins		6.00 €	
- for HV, left wheel harness (with assembled and sheathed WHITE connector)	or	11.50 €	
- for HV, left wheel WHITE connector with crimp pins		6.00 €	
<u>Accessories:</u>			
10 leds HUD module		135.00 €	
IR remote control with digits		35.00 €	
4 butons remote keyboard		49.00 €	
Suction cup with double ball and aluminum arm		69.00 €	
RP380 pilot display (TFT colour 4.3")		445.00 €	
GPS receiver 10 Hz (without auto correction strategy)		170.00 €	
OBDII harness for modern vehicle		34.00 €	
220 V. power to use RR400 outside of vehicle		23.00 €	
Inductive wheel sensor (without connector, aim for the screw heads...)		57.00 €	
Magnetic wheel sensor (without connector, needs at least one magnet)		28.00 €	
Magnet with M4 thread		5.00 €	

Total:

Postal shipping to France costs (for order of a new timer): offered

Prices are non-contractual and may vary according to:

- supply of accessories,
- compatibility of the options.

**CRISARTECH can also rent this equipment for the duration of a race**

Some examples of configurations, among all the possibilities:

« New Energy Rally » with Renault Zoe, light configuration: timer is shared in the middle:



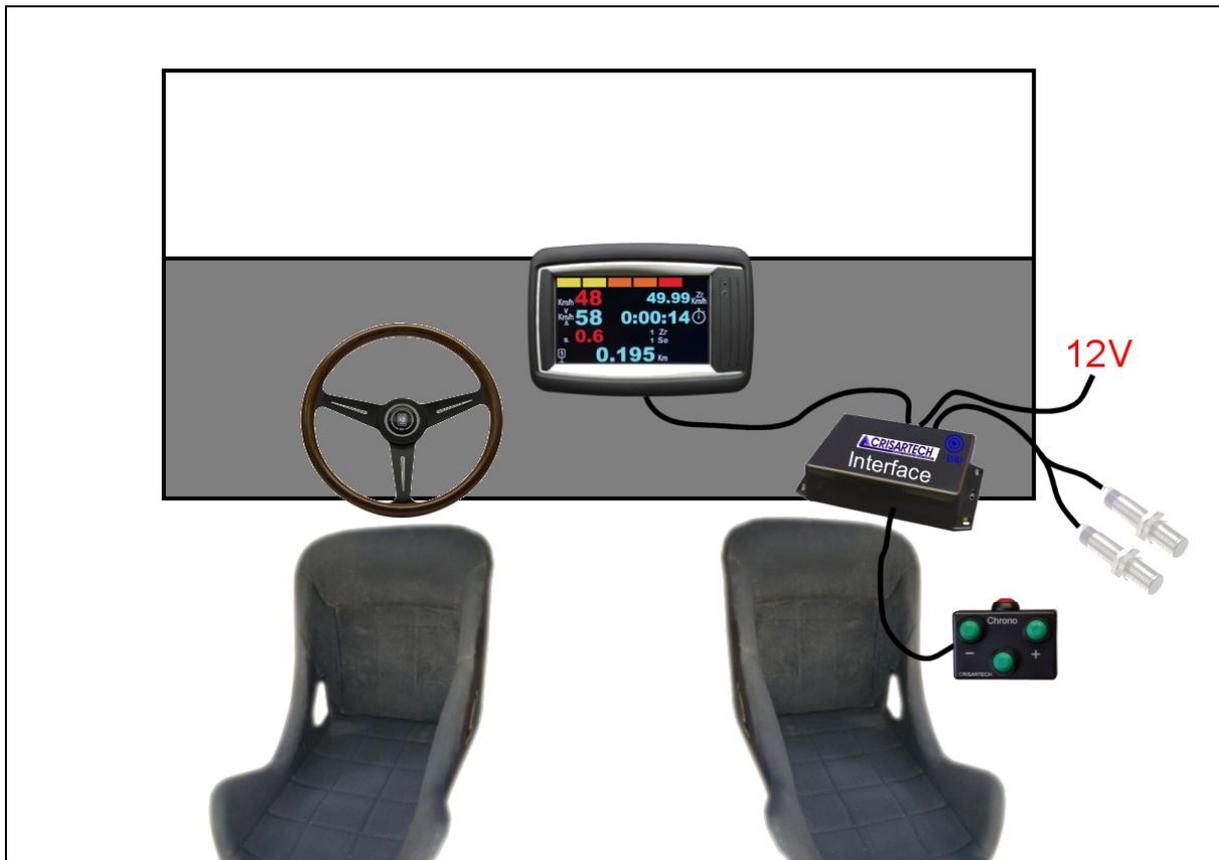
Price: RR400 + suction cup: 745 + 69 = **814 ETTC**

« New Energy Rally » with **Tesla**, intermediate configuration, distance corrections by GPS (from data acquired with OBDII compatible vehicle). Timer installed more co driver side, pilot has HUD leds module and buzzer:



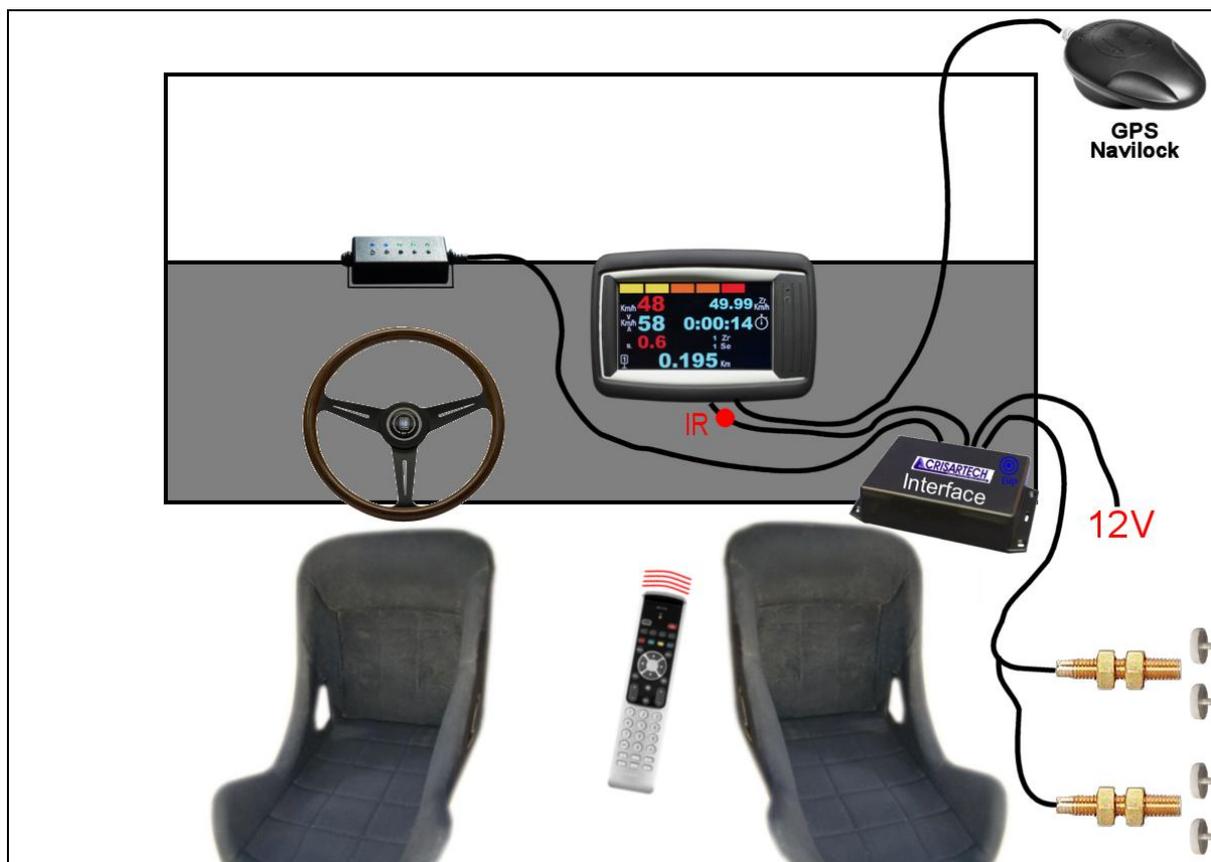
Price: RR400 + GPS auto correction+ interface + buzzer + HUD Leds + IR remote control + suction cup:  
745 + 245 + 225 + 33 + 18 + 9 + 135 + 35 + 69 = **1514 ETTC**

**Historical Rally**, light configuration, timer is shared, screwed with remote keyboard. Connectors and sensors are reused:



Price: RR400 + interface + buzzer + keyboard - connectors:  $745 + 225 + 15 + 9 - 22.50 + 49 = 1020.50$  ETTC

**Sportive Historical Rally**, intermediate configuration, distance corrections by GPS (from data acquired with OBDII compatible vehicle). Timer installed more codriver side, pilot has HUD leds module and buzzer, two magnetic sensors and 4 magnets:



Price : RR400 + GPS auto correction + interface + buzzer + HUD Leds + IR remote control with remote receiver + connectors + 2 sensors + 4 magnets :

$$745 + 245 + 225 + 33 + 9 + 18 + 4.50 + 2 \times 6 + 135 + 35 + 2 \times 28 + 4 \times 5 = 1537.50 \text{ ETTC}$$

**Historical Rally Monte-Carlo**, complete configuration, pilot display, r distance corrections by GPS (from data acquired with OBDII compatible vehicle or bought from CRISARTECH), suction cup for scouting vehicle, 220V power adaptor, bips sent to intercom, two inductive sensors:



Price: RR400 + RP380 + GPS auto correction + interface + remote buzzer + keyboard + harnesses + suction cup + 220v power + 2 sensors:

$$745 + 445 + 245 + 225 + 15 + 18 + 8.50 + 2 \times 11.50 + 49 + 69 + 23 + 2 \times 57 = 1979.50 \text{ ETTC}$$

Intercom modification not included.