ALSPY
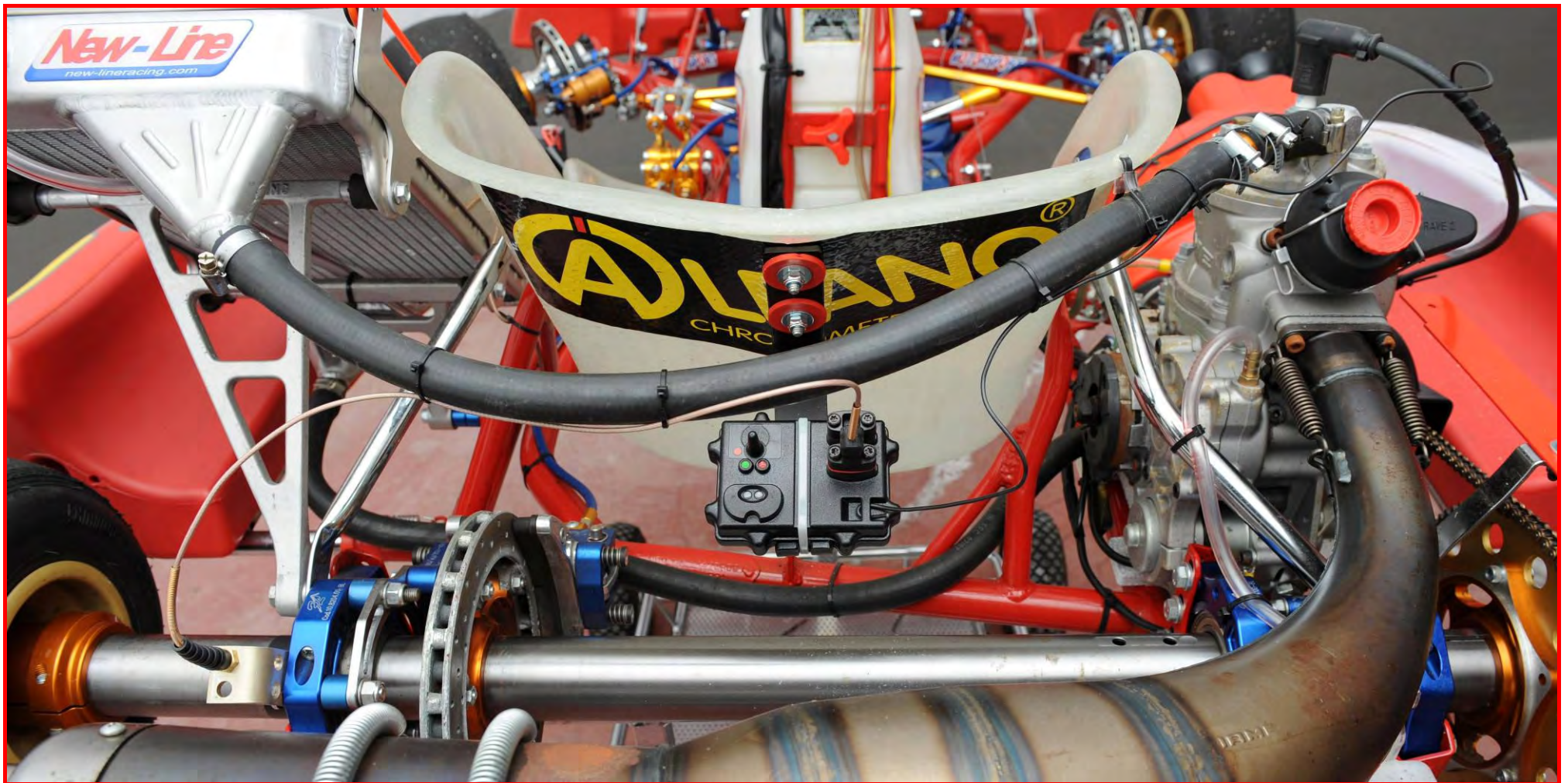

ALSPY for the control of clutch conformity and of non-authorised exceeding of the engine speed (RPM)

ALFANO SA - CIK-FIA

The CIK-FIA has chosen the ALFANO company for the development of the ALSPY following a very precise load notebook.

This device allows the control of the conformity of the clutch and of any exceeding of the authorised engine speed of karts.

Note: To avoid all litigations between the Organisers and Competitors, the analysis of this data will be carried out only with a computer, and not via the luminous LEDs present on the device and clearly visible.

Technical features:

- Frequency of sampling: RPM, SPEED and lateral G-FORCE, 10 Hertz.
- Timekeeping (with the magnetic sensor): To the thousandth of a second (0.000)
- Communication: A110-Wireless and Infrared / A111-Infrared
- Battery: Nimh (mobile phone technology) re-loadable via the outside connector.
- Capacity of the battery: 15 hours in working mode (on track), 6 months in off mode (not on track).
- Weight of the ALSPY: +/-150 gr.
- Availability: end of March 2009.

Installation:

- The ALSPY is attached to the back of the seat on a stainless steel support especially designed for karts.
- The speed sensor A245 is attached to the rear axle with an appropriate support.
- The RPM sensor is placed on the H.V. cable of the ignition spool.
- The magnetic sensor A243 is attached to the floor.

Note: The magnetic sensor is not necessary nor for the control of the conformity of the clutch, nor for the control of the non-authorised exceeding of the engine speed (RPM). It is only necessary if one wishes to get the lap times to the thousandth of second.

Control of the installation of the sensors:

The ALSPY allows the checking of the installation of the sensors through the two luminous LEDs.

- When the engine is started, the red LED quickly flashes, confirming the rpm sensor is working.
- When the small magnet (attached to the axle) passes before the speed sensor, the green LED is switched on for 3 seconds.
- When the small magnet (held in hand) passes before the magnetic sensor, the green LED is switched on for 3 seconds.

Data recording:

Thanks to the G-FORCE sensor incorporated in the device, the ALSPY detects if the kart is on the track or not. It allows the recording of useful data only.

Software system:

Two software programmes will be available:

- ALFANO software which will allow the downloading of the data in Wireless mode or in Infrared mode.

- VOLA software which will allow the downloading of the data with the same technology.
  The advantage of this software is that it is combined with timekeeping functions.

Data acquisition:

- All the data memorised in the ALSPY will be transferred by a simple action on the computer keyboard; so, as soon as the karts return to the Parc Fermé, the ALSPYs all become receptive in Wireless mode by request on the computer; the software then automatically queries the ALSPYs one by one and the transfer of the data of every device is carried out within a few seconds.

Verification of the data:

- Every ALSPY possesses a unique electronic number which can be associated to a Driver's name, the number of a kart, etc.
- Every recording will be accompanied by its date/hours/minutes.
- The ALFANO software, like the VOLA one, will be capable of automatically doing a pre-analysis of the data. Some icons will appear to announce whether each Competitor's data comply with the regulations. A more accurate verification will be possible through diagrams, racing lines and charts.

PRICES:

Art. A110	ALSPY Wireless + Infrared / *Download*	190 €	
Art. A111	ALSPY Infrared / *Download*	125 €	
Art. A432	Battery charger for ALSPY	20 €	

Art. A593	Support for ALSPY	25 €	
Art. A245	Speed sensor 60 cm with 5 magnets and 2 supports	62 €	
Art. A447	Support for A245	8 €	

Art. A440	Magnets - 20 units for A245	8 €	
Art. A243	Magnetic sensor 160 cm *(for the chronometric times)* *Not necessary for control of clutch conformity and of non-authorised exceeding RPM*	62 €	
Art. A433	Box for 24 ALSPY with 24 chargers	950 €	

Art. A422	Interface « Wireless – USB »	150 €	
Art. A421	Interface « Infrared – USB »	95 €	
	ALFANO_SPY software	0 €	
	VOLA RACING Software www.vola.fr		See with VOLA

Transport cost and taxes are not included in these prices.