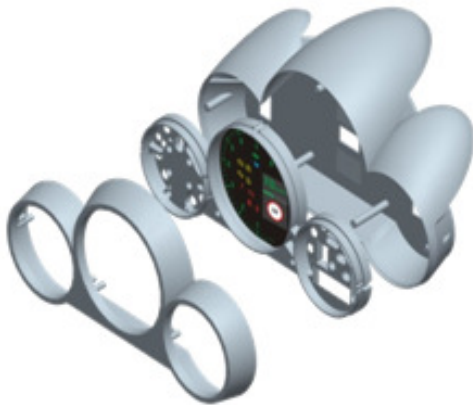




RUF *CTR*³ drives with Cosyst components

In October the first series CTR³ from RUF Cars, one of the most exclusive small series super sport cars was delivered, with **Cosyst** electronic components. The vehicle is equipped with a meter cluster (**Cosyst-MAIC**) and an intelligent power module (**Cosyst-SAAM**) from **Cosyst**.



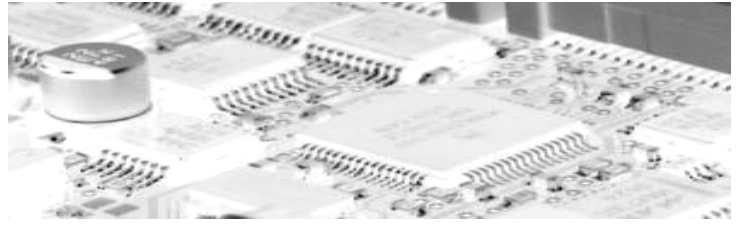
The CTR³ meter cluster is based on a modular meter cluster concept which allows a fast and easy implementation. **Cosyst** took over the complete development of the meter cluster based on the design ideas of the company RUF. Besides the project specific development of hard- and software also the construction of the housing was done by **Cosyst**.

The meter cluster consists of 3 round instruments with anti-reflection glass. The centrally arranged tachometer is turned around 90 degrees, in style of classic racing cars in order to represent the maximum speed in the direct view of the driver. The control of the stepping motor was laid out very dynamically, in order to suit to the character of the vehicle.

Beside various warning lamps a graphic display is integrated in the tachometer, on which among other things the current vehicle speed and the boost pressure are represented. The display also contains the onboard computer and shows warning messages in a fault case.



The menu language can be selected from different languages just like the units for temperature and driving distance. In the left hand side round instrument 4 analog gauges inform the driver about the current oil pressure, the tank level and the temperatures of water and oil.



The speedometer in the right hand side round instrument is equipped with a scale to 400 km/h. A text display beneath the speedometer represents the time, the outside temperature, the daily and total odometer.

The actual gear of the sequential transmission is shown on a 16 segment display in the right hand side round instrument.

The entire meter cluster is realized in through-lighted illumination technology and can be dimmed by using the onboard computer.

Beside the meter cluster an intelligent power module (**Cosyst-SAAM**) is used in the vehicle. This modular electronic control unit is in charge of various tasks.

- Measurement of the air mass of two air mass sensors and computation of a sum air mass to be delivered to the engine control unit
- Transmission, linkage and filtering of relevant data via CAN bus (CAN-Gateway)
- Measuring of the current tank filling level
- Measurement of the engine oil level
- Measurement of the currently engaged gear of the sequential transmission
- Control of the back-up lights
- Acquisition of the position of the chassis lift
- Allocation of the voltage supply for external sensors
- Monitoring of the washing water condition
- Check of the brake pad wear
- Control of the interior illumination brightness
- Manual actuation of the rear spoiler based on the push buttons in the interior
- Manual or speed-dependent actuation of the rear spoiler control unit

