# ProContour Tyre Monitor:

**Automated measurement and recording of reproducible data of tyre conditions for test vehicles.**

procontour

Traffic Safety. From a different Point of View.

# ProContour Tyre Monitor:

## The innovative hardware and software module that simplifies the daily documentation for tyre and vehicle testing from now on.

### Automation and rationalisation of the documentation processes

The ProContour Tyre Monitor has been developed for the test, research and development departments of the automotive and tyre industry. It is used for data recording and further evaluation of tread depths and wear patterns – other measurement functions can be stored in joint development with our customers.

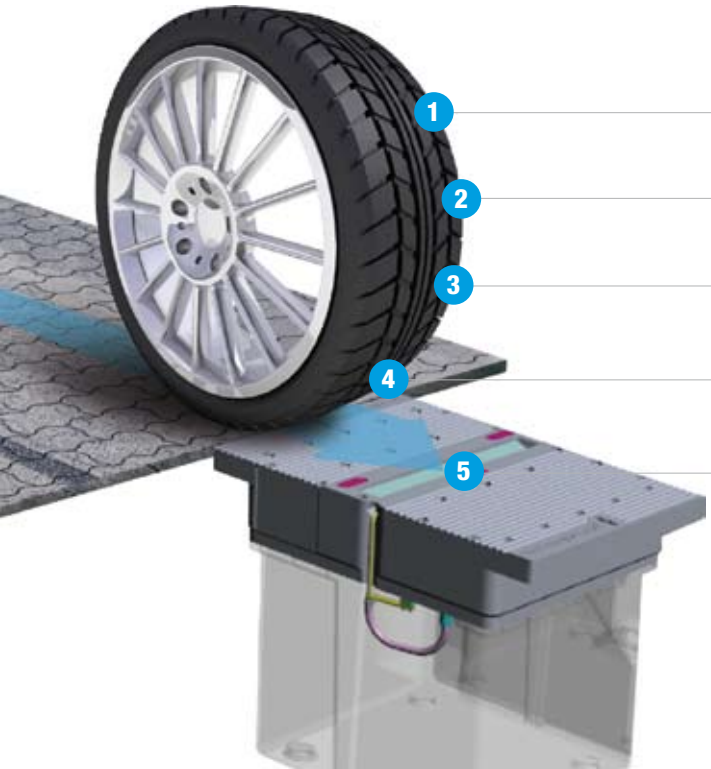
Measurement data need no longer be time-intensively recorded by hand as they were in the past – the system automatically measures the tyre condition when vehicles cross over the system before and/or after each test drive and transfers the data to a mobile or stationary analysis and computer system.

### Up-to-the-minute measurement data situation and dependable reproduction

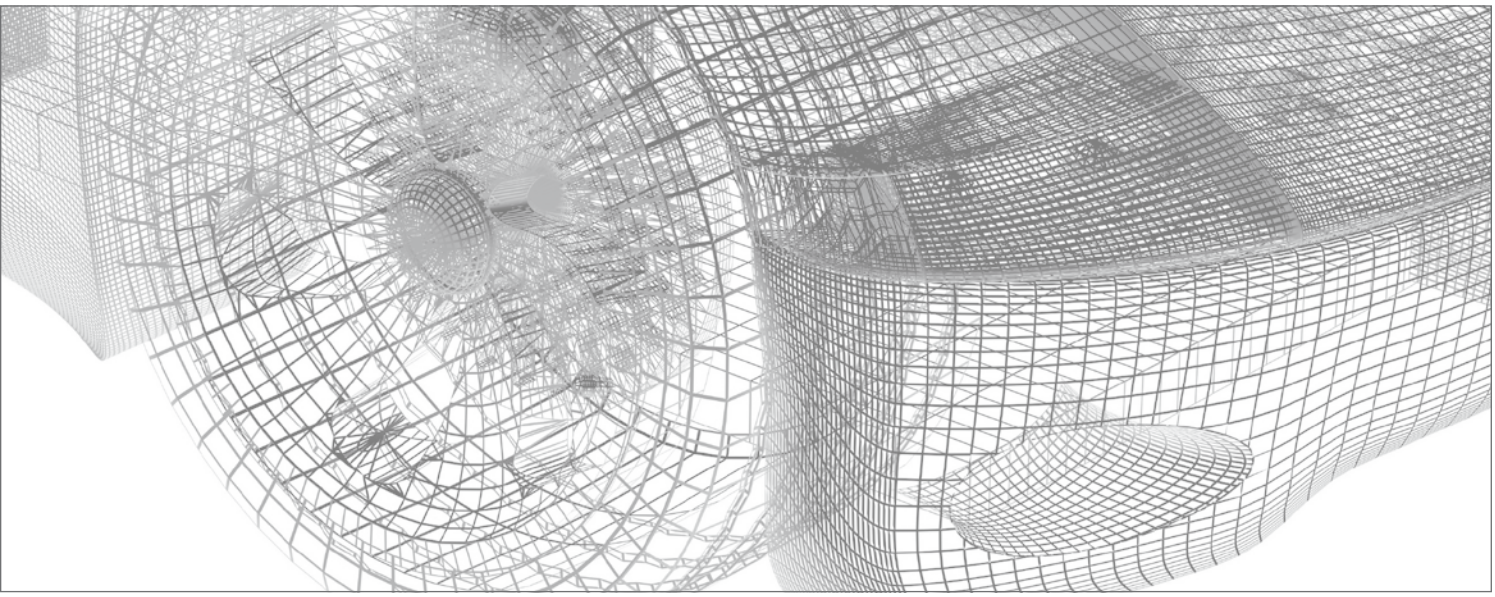
Pattern detection and time series are two essential processes for proven knowledge and prognosis. Tyre Monitoring puts test departments and test drivers in a position to define precise measurement samples and measurement points per tyre and tyre set, and to draw conclusions from the physical changes on the time axis.

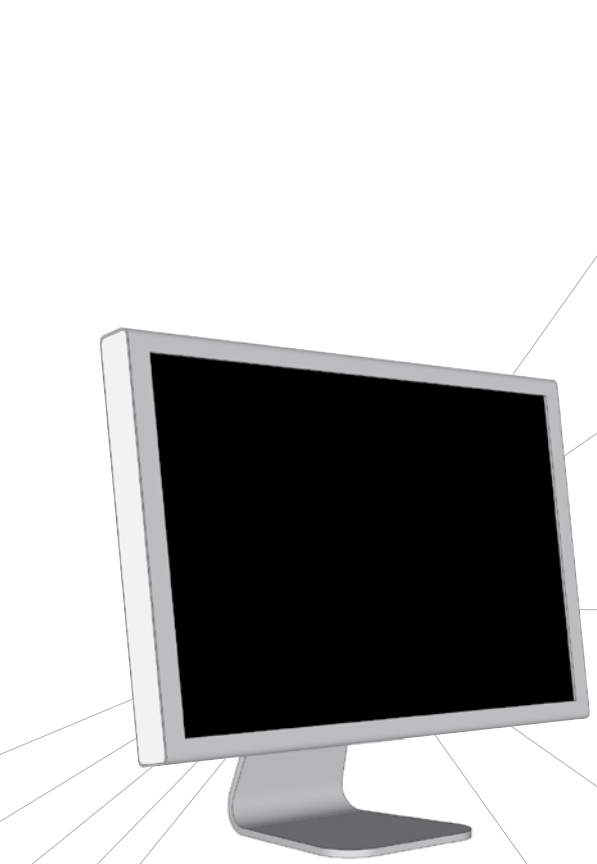
### Greater safety for the driver, vehicle and traffic

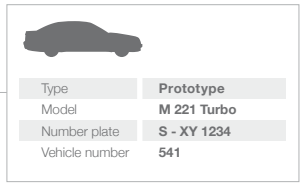
Whether it's testing high-quality cars for road endurance or on closed-off test routes – besides the dependable findings and prognoses, above all risky tyre conditions can be detected in good time and remedied immediately: a significant contribution to greater test and working efficiency for the individual – an invaluable asset for the road safety of all.



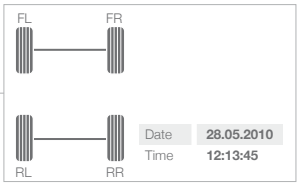

Two sensor heads (left track and right track) are inserted in a pre-installed underground channel on the testing grounds. The measurement data of traversing vehicles are transferred via a data cable to a PC station located in the company premises or in the escort vehicle.



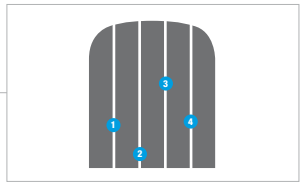




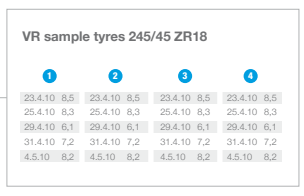

Screen for creating vehicles




Assembly data with tyre model on the respective chassis position




Screen for defining measurement points per tyre model and size




Automatic assignment of the recorded measurements using the vehicle number plate and the assembly data for specifying the screen of the individual tyre


Possibility to transfer mileage from the tank monitoring system (interface enabling/clarification from the customer is a prerequisite)

## Technical characteristics of ProContour H3-D facto:

| | |
|---|---|
| Tread depth, resolution: | 0.05 mm |
| Weight measurement: | optional |
| Traversal speed: | approx. 15 km/h (120 km/h*) |
| Mass per measuring head: | approx. 80 - 120 kg |
| Measurement width **: | 2 x 450 mm (450 mm per vehicle side) |
| Measurement width **: | 2 x 600 mm (600 mm per vehicle side) |
| Measurement width **: | 4 x 450 mm (950 mm per vehicle side) |
| Measurement width **: | 4 x 600 mm (1250 mm per vehicle side) |
| Power supply (for two measuring heads): | 230 V / 10 A |
| Interface (standard version): | 1 x Ethernet (1 Gbit) |
| Software interface: | CSV, XML, SQL, customer request |
| Operating system: | Windows Server 2003, Windows XP |

* for high-speed systems
** for both speed ranges (15 km/h | 120 km/h)

## Equipment options, such as:

- Camera for recording the traversing situation
- Camera for recording the vehicle and number plate
- Printer
- Loading and insertion aid for the measuring heads
- Export interfaces for the measurement data
- Number plate recognition

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