

New Software Improves Tyre Management

Innovative 'Garage Monitoring Software' allows race teams to monitor pressure and temperature of up to 240 tyres at once

A new software option that offers race and tyre engineers the possibility to simultaneously monitor the pressure and temperature of over 240 tyres from a single location has been announced by BERU f1systems. With complete data from all the tyres available, engineers can quickly identify issues and select the optimum wheel set for the conditions.

“Currently engineers have to interrogate each tyre individually which can be time consuming” says application engineer James Shingleton. “This new software provides the temperature and pressure of up to 240 tyres in a single location, simplifying the task considerably.”

The system can also advise if tyres breach pre-determined minimum and maximum pressures or temperatures, quickly highlighting a tyre which is not in its optimum condition. With multiple configuration options, the team can set individual warning parameters for front and rear tyres. Using the permit list and position file already generated for the TPMS ECU, (to recognise which wheel set a sensor belongs to, and where it will be positioned on the car) the software sorts the data received to display complete wheel sets on screen.

The system works using antennae mounted in the garage to receive datagrams transmitted by the wheel sensors when they are stationary, or when the wheel sensor is interrogated by a Mini Trigger (one supplied with the package), which are then processed by the ECU and the data is transferred to the PC software.

The Garage Monitoring Software compliments BERU f1systems' complete range of TPMS products. The firm's award winning technology is available for applications ranging from Formula One through to road cars and commercial

vehicles. The firm also manufactures diagnostics and test equipment for race teams and vehicle manufacturers.

The system is expected to be popular with teams at the higher levels of motorsport as well for tyre suppliers supplying control tyres to professional one make series. “Our systems have always provided comprehensive data about the tyres on the car for drivers and engineers,” adds Shingleton. “Now, the technology also offers a complete picture about all the tyres waiting to go onto the car, which benefits those fitting and managing the tyres.”

About BERU f1systems

BERU f1systems offers advanced design and manufacturing facilities for vehicle wiring harness systems, tyre pressure monitoring, stress measurement and composites. Supplied to world championship winning cars in every major formula including Formula 1, components from BERU f1systems are now available in military, road car, aerospace and nautical applications.

Photographs

Available from Nick Bailey email (see below)



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