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LEEA

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The communicating tyre


The chip is attached to the wheel inside the tyre


TPSM receiver

Michelin's latest truck tyre, dubbed the 'communicating tyre' combines Radio Frequency IDentification (RFID) and a Tyre Pressure Monitoring System (TPSM) to display an electronic read-out of tyre pressures and temperatures. The Michelin X InCity tyre is currently being trialled with buses, but could easily be developed for use on larger commercial tyres including crane tyres.

The RFID tag/ microchip is attached to the wheel inside the tyre. The driver or mechanic then uses a hand held receiver to scan the tyre, which displays tyre tread depth, pressure and temperature on a built-in data readout. The RFID tag is powered by electromagnetic waves emitted during data collection and does not require batteries.

Michelin's technical department said: "An average check of the condition and pressure of a tyre can take as long as 15 minutes. Our new system can record tyre pressure, temperature, mileage and tread depth within a matter a seconds. Not only does combining the RFID and TPMS technology enhance the safety of the tyres, but it can also reduce costs and emissions, as a tyre inflated to one bar less than the recommended pressure increases fuel consumption by up to 0.4 litres per 100km."

WAN optimisation smooths information transfer

UK based Ainscough Crane Hire has installed an Exinda Wide Area Network (WAN) optimisation system to prioritise, accelerate and control business critical information traffic across its network of 29 depots. The result is a more efficient use of key applications including VoIP internet telephone calls and access to its asset management and document management systems.

The Exinda system not only intelligently accelerates and prioritises critical traffic, but also improves visibility and control of all applications across the network.

Ian Booth, Ainscough's senior IT manager said: "We chose Exinda because we needed a solution that could give us complete control over our asset and document management systems that we are reliant on to manage our day-to-day activities. What's great is that it can scale up quickly, ready to handle the increased network requirements surrounding peak-time activities and significant projects - such as the refits we undertake for major oil refineries. Lasting a few weeks, these require increased use of planning, documenting and asset management applications, to oversee the entire operation in the most efficient way."

Adam Davison of Exinda, adds: "Ainscough required more from its WAN optimisation solution than simple acceleration, thanks to Exinda's ability to integrate into Active Directory, we have provided the unique ability to identify users' individual traffic flows using our dynamic policy engine."

The most obvious benefits are clearer voice over internet telephone conversations, faster transfer of critical documentation, along with detailed live time reporting of what's happening on the network.

New high strength electronic joystick

Penny + Giles has introduced the JC8000, a new heavy-duty electronic joystick controller specially engineered for applications in physically demanding working conditions and for applications that traditionally use hydraulic joysticks.

The increased strength of the new joystick has been achieved by increasing the body material around the area that supports the operating lever, increasing the operating lever's diameter and changing the lever's pivot geometry. These fundamental changes have enabled the joystick to handle increased torque and improve the lever's bending and applied loads. It can withstand a 380Nm overload on the X and Y axes and 2000N on the vertical. It has also been tested to more than 60 million operations/15 million cycles under laboratory conditions.

With an under-panel depth of 70mm, the JC8000 is more compact than equivalent heavy-duty joysticks and the choice of digital or analogue outputs, including dual-redundant 12 bit Hall effect, CANbus J1939 and digital PWM, provides manufacturers with an ideal opportunity to improve their vehicle control systems. Other features include single or dual axis control, IP69K sealing to the electronics, 5Vdc (regulated) or eight to 54Vdc (unregulated) supply, dual-channel analogue output on each axis with optional ramp directions, a range of eight handle/grip options and an operating temperature range from -40°C to +70°C.


JC 8000

enquiries

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