

TyreSense TPMS HUB Controller

HUB

RIMEX now offers a hub controller as a customer-driven solution that takes Tire Pressure Monitoring Systems (TPMS) to new levels of real-time enterprise connectivity for improved tire and vehicle performance management.



Expanded system integration with a new Deutsch 40-pin connector for custom connectivity solutions, more accessible one-sided cable runs, and standard cable connector ports with improved service diagnostics.

- ➔ Directly connect to the vehicle's Controller Area Network (CAN) bus using industry standard protocols (SAE J1939) to exchange information on operational vehicle and tire pressure and temperature performance.
- ➔ Multiple serial, and digital and analog inputs with relay outputs offering maximum flexibility for custom tailored solutions.
- ➔ Standard connector ports for power, LCD display, radio frequency (RF) data to sensors, cellular and ethernet network access, Bluetooth client application, and a GPS receiver antenna.
- ➔ Designated auxiliary/serial and USB mini connectors for data exchange, configuration management, and system diagnostics.



GPS and Inertial Measurement Unit (IMU)

Combined advanced GPS and IMU delivers improved dead reckoning for more accurate location tracking with vehicle attitude and acceleration data.



- ➔ Detects sudden impacts (pressure spikes) from road hazards and abnormal vertical/ lateral forces associated with vehicle acceleration, deceleration, and cornering events.
- ➔ Provides more accurate position tracking both with and without the presence of a GPS signal.

4G Cellular Communication

Advanced 4G cellular communication featuring dual-mode redundant communications between ethernet and cellular for more flexibility allowing high speed connections to a local/wide area network to TyreSense's Applications/Services.

- ➔ 4G cellular offers faster, up-to-date cellular communication with greater service support.
- ➔ Prior 2G/3G cellular communication is supported, but is becoming obsolete in many areas.

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Contact your local branch for more information: RIMEX.com/company/locations

TPMS HUB CONTROLLER

TyreSense TPMS HUB Controller

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The HUB is fully compatible with existing TyreSense products and systems already installed in the majority of off-road vehicles, eliminating the need to remove or replace existing TPMS components, accessories, or solutions.

Reliable Power Control with Improved System Capabilities

TPMS HUB features a 'last-gasp' power control that allows the unit to send a powering down message to log events for smooth shut down to improve vehicle TPMS tracking, and supports device initialization process in the event of power interruptions.

- ➔ Operational flexibility is improved since the HUB has expanded memory for controlling in-vehicle data exchanges between integrated systems for both operator-controlled and autonomous vehicles.
- ➔ In the event the system goes off-line, HUB's increased data storage retains system data, as collected for the vehicle.
- ➔ Only an LCD display and cable are required for the vehicle operator.
- ➔ Built in smart battery management detects power supply, allows switching to power saving mode if charging voltage is not present.



Designed and Certified for Mining Environments

HUB is engineered against electronic or communications interference, environmental contamination as well as extreme temperature while in storage and operating to ensure that it meets or exceeds its performance specifications.

- ➔ Additional status LEDs provide more information for improved in-vehicle service, installation, and support.
- ➔ Features sealed end plates with connector ports that provide improved ingress protection from debris including dirt, dust, and water.
- ➔ Contact us for registered certifications.



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