

2026 PRODUCT CATALOGUE

We are at the forefront of Tire Pressure Monitoring System (TPMS) innovation, providing intelligent, wireless, and embedded solutions engineered to deliver efficiency and reliability across a wide range of vehicle applications and operating environments.

Discover our TPMS portfolio, engineered to meet international standards and future mobility needs.

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BELT SENSOR

RIM TPMS

PRODUCT OVERVIEW

Our real-time TPMS monitors sudden pressure loss using in-tire sensors with a patented, toolless rim-mounted design. The self-powered sensor provides 24/7 transmission, up to 7 years of lifetime, and measures pressure up to 14 bar (203 psi) in harsh environments.

The system also supports tire mileage tracking, encrypted RFID. It's the nylon belt mounting solution.



TECHNICAL DATA



MECHANICAL	
Size	86.5x40x20.9mm
Weight	40g (belt not included)
Tightness	IP67
Marking	ISO 11469
Rim Sizes	17.5" to 22.5"
Standard	IPC 1755

MEASUREMENT	
Pressure Range	0 to 1400 kPa
Pressure Resolution	5.5 kPa
Pressure Accuracy	±17 kPa (-40 to 85°C)
Temp. Range	-40 to 125°C
Temp. Resolution	1°C
Temp. Accuracy	±3°C (-20 to 25°C)

TEMPERATURE RANGE	
Operating	-40 to + 125°C
Storage Battery	0 to 30°C
Battery Lifetime	7 years

RADIO FREQUENCY	
RF Protocol	FSK Manchester
Carrier Frequency	433.920MHz ±100ppm
FSK Deviation	±11.5kHz ±2kHz
RF bit-rate	11363 bits/s

LEGAL REGULATIONS	
Marking	CE
RF Regulation	FCC/IC RED
RF Regulation	IEC/EN 62368-1

HOOK SENSOR

RIM TPMS

PRODUCT OVERVIEW

Our real-time TPMS monitors sudden pressure loss using in-tire sensors with a patented, toolless rim-mounted design. The self-powered sensor provides 24/7 transmission, up to 7 years of lifetime, and measures pressure up to 14 bar (203 psi) in harsh environments. This sensor exists in 2 versions: 434MHz and 315MHz (for the Japanese market).

The system also supports tire mileage tracking, encrypted RFID. It's the cable mounting solution.



TECHNICAL DATA



MECHANICAL		TEMPERATURE RANGE	
Size	137x33x22mm	Operating	-40 to + 125°C
Weight	70g	Storage Battery	0 to 30°C
Tightness	IP67	Battery Lifetime	7 years
Marking	ISO 11469	RADIO FREQUENCY	
Rim Sizes	15" to 16" (with adaptative sole) 17.5" to 22.5"	RF Protocol	FSK Manchester
Standard	IPC 1755	Carrier Frequency	433.920MHz ±100ppm 315.025MHz ±100ppm
MEASUREMENT		FSK Deviation	±11.5kHz ±2kHz
Pressure Range	0 to 1400 kPa	RF bit-rate	11363 bits/s
Pressure Resolution	5.5 kPa	LEGAL REGULATIONS	
Pressure Accuracy	±17 kPa (-40 to 85°C)	Marking	CE
Temp. Range	-40 to 125°C	RF Regulation	FCC/IC RED
Temp. Resolution	1°C	RF Regulation	IEC/EN 62368-1
Temp. Accuracy	±3°C (-20 to 25°C)		

TIRE TYPE TPMS SENSOR

PRODUCT OVERVIEW

Our real-time Tire Pressure Monitoring System (TPMS) detects sudden pressure loss using wheel-unit sensors mounted inside the tire. The patented tire-mounted solution, integrated in a dedicated rubber container, enables easy tire installation and simplifies field operations.

The self-powered sensor delivers 24/7 data transmission, up to 7 years of lifetime. It also supports tire mileage tracking, load measurement via footprint, and encrypted tire RFID, while protecting the sensor from damage.



TECHNICAL DATA



MECHANICAL	
Size	80x58x22mm
Weight	33g
Tightness	IP67
Marking	ISO 11469
Standard	IPC 1755

MEASUREMENT	
Pressure Range	0 to 1400 kPa
Pressure Resolution	5.5 kPa
Pressure Accuracy	±17 kPa (-40 to 85°C)
Temp. Range	-40 to 125°C
Temp. Resolution	1°C
Temp. Accuracy	±3°C (-20 to 25°C)

TEMPERATURE RANGE	
Operating	-40 to + 125°C
Storage Battery	0 to 30°C
Battery Lifetime	7 years

RADIO FREQUENCY	
RF Protocol	FSK Manchester
Carrier Frequency	433.920MHz ±100ppm
FSK Deviation	±11.5kHz ±2kHz
RF bit-rate	11363 bits/s

LEGAL REGULATIONS	
Marking	CE
RF Regulation	FCC/IC RED
RF Regulation	IEC/EN 62368-1

VALVE TYPE TPMS SENSOR

PRODUCT OVERVIEW

Our real-time Tire Pressure Monitoring System (TPMS) detects sudden pressure loss using wheel-unit sensors mounted inside the tire.

The self-powered sensor delivers 24/7 data transmission, up to 7 years of lifetime. It also supports tire mileage tracking, measures pressure up to 14 bar (203 psi) in harsh environments.

The system also supports tire mileage tracking, encrypted RFID. It's the valve mounting solution.



TECHNICAL DATA



MECHANICAL	
Size	86.5x40x20.9mm
Weight	40g
Tightness	IP67
Marking	ISO 11469
Valve Type	TPMS Standard
Standard	IPC 1755

MEASUREMENT	
Pressure Range	0 to 1400 kPa
Pressure Resolution	5.5 kPa
Pressure Accuracy	±17 kPa (-40 to 85°C)
Temp. Range	-40 to 125°C
Temp. Resolution	1°C
Temp. Accuracy	±3°C (-20 to 25°C)

TEMPERATURE RANGE	
Operating	-40 to + 125°C
Storage Battery	0 to 30°C
Battery Lifetime	7 years

RADIO FREQUENCY	
RF Protocol	FSK Manchester
Carrier Frequency	433.920MHz ±100ppm
FSK Deviation	±11.5kHz ±2kHz
RF bit-rate	11363 bits/s

LEGAL REGULATIONS	
Marking	CE
RF Regulation	FCC/IC RED
RF Regulation	IEC/EN 62368-1

TWO-WHEELER TPMS SENSOR

PRODUCT OVERVIEW

Our real-time Tire Pressure Monitoring System (TPMS) detects sudden pressure loss using in-tire wheel-unit sensors. The patented valve-mounted design (90° or straight) enables controlled, torque-defined installation, simplifying manufacturing operations.

The self-powered sensor offers up to 5 years of lifetime and measures pressure up to 3.5 bar (51 psi) in harsh environments.



TECHNICAL DATA



MECHANICAL	
Size	39.3x24.6x23.7mm
Weight	26g
Tightness	IP67
Marking	ISO 11469
Rim Hole Size	Ø8.5 or Ø11.5
Standard	IPC 1755
Battery	CR2032

MEASUREMENT	
Pressure Range	0 to 350 kPa
Pressure Resolution	1.37 kPa
Pressure Accuracy	±4.5 kPa (-40 to 85°C)
Temp. Resolution	1°C
Temp. Accuracy	±3°C (-20 to 70°C)
Temp. Range	-20 to 120°C

TEMPERATURE RANGE	
Operating	-20 to 120°C
Survival	-40 to 125°C
Storage Battery	0 to 30°C
Battery Lifetime	Depending on Protocol type

RADIO FREQUENCY	
Carrier Frequency	433.92 MHz 315.025MHz (Japan)
RF Protocol	FSK Manchester
Deviation Frequency	±23 kHz
RF bit-rate	11363 bits/s
LF Protocol	ASK Modulation

LEGAL REGULATIONS	
Marking	CE
RF Regulation	FCC/IC RED
RF Regulation	ARIB STD T93

AFTERMARKET TPMS SENSOR

PRODUCT OVERVIEW

This Tire Pressure Monitoring solution offers high vehicle compatibility with simple just-in-time programming and full OEM functionality. It features an aluminium valve, available in different colours.

Powered by a high-quality lithium button cell, it ensures a long service life and is compatible with all standard diagnostic and programming tools on the market.



TECHNICAL DATA



MECHANICAL	
Size (without valve)	50x22x12.5mm
Weight (without valve)	29g
Tightness	IP67 Polyurethane potting
Marking	ISO 11469
Battery	CR2050

INTERFACES	
Carrier Frequency	433.945 MHz
RF Protocol	FSK Manchester
Deviation Frequency	±10 kHz
RF bit-rate	11400 bits/s
LF Protocol	ASK Modulation

LEGAL REGULATIONS	
Marking	CE
RF Regulation	FCC/IC RED
RF Regulation	ARIB STD T93

TEMPERATURE RANGE	
Operating	-40 to 125°C
Survival	-40 to 150°C
Storage Battery	0 to 30°C
Battery Lifetime	Depending on Protocol type

MEASUREMENT	
Pressure Range	800 kPa
Pressure Resolution	2.75 kPa
Pressure Accuracy	±20 kPa (0 to 70°C)
Temp. Resolution	1°C
Temp. Accuracy	±3°C (-20 to 70°C)

RECEIVER CONTROL UNIT

TIRE PRESSURE

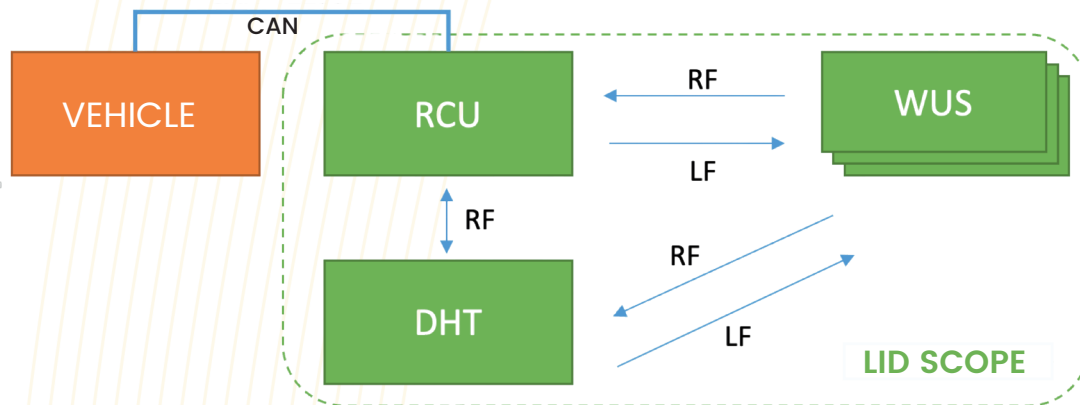
PRODUCT OVERVIEW

This real-time TPMS alerts drivers to sudden pressure loss, helping prevent breakdowns and tire-related accidents.

The RCU receives wireless data from wheel sensors and transmits pressure and temperature via the vehicle CAN network. An optional algorithm can identify each wheel's position automatically.



TECHNICAL DATA



MECHANICAL

Size	118x100x56.6mm
Weight	164g
Tightness	IP69K
Flammability	UL94 V0
3 Mounting Points	M5 or M6 Fastener

INTERFACES

CAN	J1939	500 or 250kb/s
CAN Trailer	ISO 11992	250kb/s
Radio Frequency	434 MHz	11400bit/s

TEMPERATURE RANGE

Operating	-40 to 85°C
Storage	0 to 40°C

LEGAL REGULATIONS

Marking	CE
RF Regulation	FCC/IC RED
TPMS	R141

TIRE PRESSURE MONITORING SYSTEM

Sensors	Up to 24 (+4 spare wheels)
Layout Configuration	Number of RCU Number of axles Number of wheels
Thresholds Configuration	Nominal pressure Low pressure warning Low pressure alert High pressure warning High temperature warning
Manual Location	Sensor location configuration with a diagnostic tool

AUTOLOCATION LAYOUT (Optional)

Bus	3 axles
Truck	4x2 and 6x4
Trailer	6 wheels/3 axles

ELECTRICAL

Connector	Six ways: 1. Power 2. CAN High 3. 120R CAN Termination activation 4. Ground 5. CAN Low 6. Ignition
Voltage	10 to 32V
Protection	3A fuse
RCU Consumption	20 to 100mA

REPEATER TIRE PRESSURE

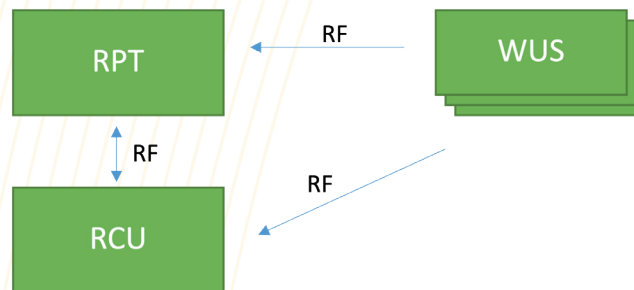
PRODUCT OVERVIEW

The Repeater (RPT) shall transmit Tire Pressure Monitoring (TPM) information received from Wheel Unit Sensors (WUS) installed in rotating tires to TPMS Receiver Control Unit (RCU).

RPT can be installed under the vehicle. It is a gateway between WUS and RCU.



TECHNICAL DATA



MECHANICAL		ELECTRICAL	
Size	118x100x56.6mm	Connector	Six ways: 1. Power 2. CAN High 3. 120R CAN Termination activation 4. Ground 5. CAN Low 6. Ignition
Weight	164g	Voltage	10 to 32V
Tightness	IP69K	Protection	3A fuse
Flammability	UL94 V0	RCU Consumption	20 to 100mA
3 Mounting Points	M5 or M6 Fastener		
INTERFACES			
Radio Frequency	434 MHz 11400bit/s		
TEMPERATURE RANGE			
Operating	-40 to +85°C		
Storage	0 to 40°C		
LEGAL REGULATIONS			
Marking	CE		
RF Regulation	FCC/IC RED		

RECEIVER CONTROL UNIT

TWO-WHEELER

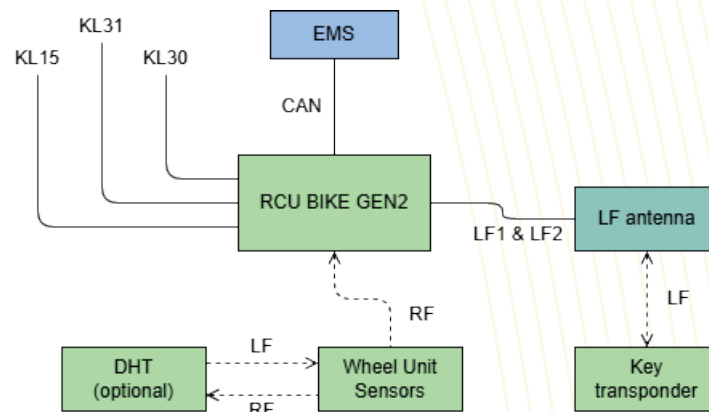
PRODUCT OVERVIEW

Our real-time Original Equipment direct tire pressure monitoring system (TPMS) warns against sudden loss of pressure, and protects the driver from annoying breakdowns or even serious accidents due to tire failure.

TPMS RCU continuously receives wireless data from the wheel unit sensors in order to send pressure and temperature information through the vehicle CAN network. The external LF Antenna can serve as immobiliser.



TECHNICAL DATA



MECHANICAL		TEMPERATURE RANGE	
Size	88x95x32.4 mm	Operating	-20 to 85°C
Weight	100g	Storage	0 to 30°C
Tightness	IP67	LEGAL REGULATIONS	
Flammability	UL94-HB	Marking	CE
2 Mounting Points	M5 or M6 Fastener	RF Regulation	FCC/IC RED
INTERFACES		TPMS	R141
CAN	500kb/s		
Radio Frequency	433.92 MHz 315.025MHz (Japan)		

TIRE PRESSURE MONITORING SYSTEM

Thresholds Configuration	Nominal pressure Low pressure warning Low pressure alert High pressure warning High temperature warning
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ELECTRICAL

Connector	Twelve ways: 1. LF Antenna 2. CAN Low 3. CAN High 4. - 5. KL30 6. KL15 7. LF Antenna 8. CAN Low 9. CAN High 10. - 11. KL31 12. -
Voltage	4 to 18V
Protection	5A fuse
RCU Consumption	0.5 to 150mA

TELEMATICS CONTROL UNIT

TIRE PRESSURE

PRODUCT OVERVIEW

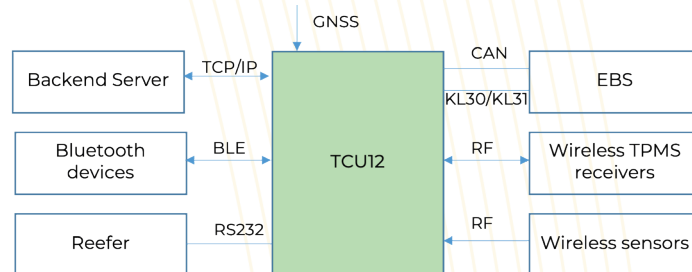
EBS standard data can be transmitted by LID's telematics unit directly to the customer's cloud server, enabling fleet managers to monitor vehicle data – including real-time tire pressure – for improved safety, efficiency, and maintenance planning.

Mounted on the chassis, the telematics hardware also acts as a receiver for all wireless sensors, eliminating the need for additional antennas or external receiver units.

The system is compatible with any service provider: LID supplies the hardware and data output, while customers remain free to choose the software platform that best fits their operational needs.



TECHNICAL DATA



MECHANICAL		INTERFACES	
Size	178x150x76mm	GSM	2G/4G*
Weight	570g	Bluetooth	BLE 4.1
Tightness	IP69K	GPS	Position 10m
Flammability	UL94 V0	Radio Frequency	434 MHz / 315 MHz (Japan)
3 Mounting Points	M5 or M6 Fastener		
LEGAL REGULATIONS		TEMPERATURE RANGE	
RF Regulation	RED	Operating	-40 to 85°C
RF Regulation	FCC/IC	Charge Battery	-30 to 85°C
RF Regulation	ARIB STD T93	Storage Battery	15 to 30°C
Marking	CE		
Cybersecurity	ISO 21434		
Update Software	ISO 24089		

**Sim-chip shall be provided prior to manufacturing*

WIRELESS SENSOR NETWORK

TIRE PRESSURE

PRODUCT OVERVIEW

Our multipurpose wireless sensors support different features activated through a hand tool device: temperature for refrigerated transporters by bringing seamless verification of the cold chain, door check with an effective protection against unwanted access, or vehicle identifier to associate the truck-trailer pair.

The self-powered sensor has a 7 year-lifetime, and 24/7 transmission rate.



TECHNICAL DATA



MECHANICAL	
Size	64.5x57.5x24 mm
Weight	59g
Tightness	IP69K
Standard	IPC 1755
Flammability	UL94-HB

INTERFACES	
Radio Frequency	434 MHz

LEGAL REGULATIONS	
Marking	CE

TEMPERATURE RANGE	
Operating	-40 to + 85°C
Charge Battery	-30 to + 85°C
Storage Battery	0 to 30°C
Battery Lifetime	7 years

MEASUREMENT	
Temp. Range	-40 to 85°C
Temp. Resolution	0.5°C
Temp. Accuracy	±1°C (-20 to 25°C)

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