V102A

BLE TPMS Internal Sensor

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Vehicle Diagnostics Solutions

Product Quick Sheet

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For B2B Wholesale / OEM / ODM Customers – V102A is a BLE 4.0/5.0 direct TPMS internal sensor measuring tire pressure (0–1500 kPa, ±1%) and temperature (±1.5 °C) with IP67 protection, ultra-low power design (≤ 1.4–1.8 µA static), 350 mAh battery (3–5 yr life), and real-time smartphone display via TPMSII app.

Highlights

- Direct tire pressure & temperature monitoring (internal sensor).
- Bluetooth Low Energy (BLE 4.0/5.0), 2.4 GHz; TX power 0 dBm (max.).
- Fast response time: ≤ 5 s.
- Pressure range: 0–1500 kPa; pressure accuracy: ±1% kPa.
- Temperature accuracy: ±1.5 °C.
- IP67 water resistance; working humidity up to 95% (max.).
- Ultra-low power: static current ≤ 1.4–1.8 µA; 350 mAh battery; typical battery life 3–5 years.
- Data displayed in the mobile app and alerts can be triggered when readings are abnormal.

Physical

78.5 × 49.3 × 18 mm
Weight: 30.8 g (internal)
Battery: 350 mAh | IP67

Key Specifications

Product type	Internal TPMS sensor	**Model**	V102A
Communication	Bluetooth 4.0/5.0 (BLE)	**Broadcast name**	TPMS1-4_XXXXXX
Main chip / core	DA14531 / ARM M0	**Working voltage**	3 V
Static current	≤ 1.4–1.8 µA	**Pressure range**	0–1500 kPa
Pressure accuracy	±1% kPa	**Temperature accuracy**	±1.5 °C
Response time	≤ 5 s	**Waterproof rating**	IP67
Operating / storage temp.	−30 to +70 °C (internal)	**Battery**	350 mAh; 3–5 years (typ.)
Dimensions	78.5 × 49.3 × 18 mm	**Weight**	30.8 g

App & Compatibility

- Supported OS: Android & iOS (Bluetooth 4.0 or above).
- App: TPMSII (scan QR card or search "TPMSII" in App Store / Google Play).
- Recommended binding: scan "one-clicking binding" QR card or scan each sensor ID code.
- Note: Android data transmission may be delayed due to hardware differences (normal).

Installation (Summary)

1. Internal sensor installation must be performed by a professional technician.
2. Install each sensor in the corresponding tire position (each sensor has a unique ID code).
3. After installation, inflate the tire and check for air leakage.
4. Open the app, choose "Auto Pair", then press "Search" to complete binding.
5. If data is not shown, drive above 20 km/h for about 2–3 km to obtain data.

Notes

- Be careful when checking tire data on your phone while driving; stop safely before viewing.
- This product reads tire pressure and temperature but cannot prevent sudden tire-related accidents; use high-quality tires.
- If tire pressure rises or drops continuously, stop the car and check the tire.
- A slow pressure decrease over time due to slight leakage is normal and not caused by this product.