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Garmin 010-00258-62

Garmin GPS 16x, LVs Instruction Manual

Model: 010-00258-62

Introduction

The Garmin GPS 16x sensor is designed for reliable and precise positioning in various applications. It features a high-sensitivity receiver, an integrated antenna, and a rugged, waterproof design. This manual provides essential information for setting up, operating, and maintaining your GPS 16x sensor.
This device continuously tracks satellites and reports your precise position. It is WAAS-enabled, allowing it to determine your location within 3 meters (9.84 ft) without requiring an external DGPS beacon receiver. The GPS 16x also offers excellent EMI/RFI performance, minimizing interference when used near mobile computing devices and wireless communication equipment.

Setup

To begin using your Garmin GPS 16x sensor, follow these general setup guidelines:

- **Mounting:** Securely mount the GPS 16x sensor in a location with a clear view of the sky. The device is designed for various mounting options, including dashboard mounts (as indicated in product images). Ensure the mounting is stable to prevent movement during operation.
- **Power Connection:** Connect the GPS 16x to a compatible power source. Refer to your specific installation guide for wiring instructions, as this sensor is often integrated into OEM applications.
- **Initial Satellite Acquisition:** Upon first power-up, the GPS 16x will begin searching for satellites. This process may take several minutes. Ensure the device is outdoors with an unobstructed view of the sky for optimal performance.
- **System Integration:** For OEM applications, integrate the GPS 16x sensor with your system according to the provided technical documentation. The sensor outputs precise positioning data for use by compatible devices.



Image: The Garmin GPS 16x LVs sensor, a compact black unit with a rugged design, shown from a slight angle. This is the main product unit.

Operating

The Garmin GPS 16x is a sensor designed to provide accurate location data to a host device. Its operation is largely dependent on the system it is integrated with. Key operational aspects include:

- **Continuous Tracking:** The 12-channel receiver continuously tracks satellites to maintain a precise position fix.
- **WAAS Capability:** With WAAS (Wide Area Augmentation System) enabled, the sensor enhances position accuracy to within 3 meters (9.84 ft) in areas with WAAS coverage.
- **Data Output:** The sensor outputs NMEA 0183 data, which can be interpreted by compatible navigation software or display units. Refer to your host device's manual for how to receive and utilize this data.
- **Interference Resistance:** The GPS 16x is engineered for excellent EMI/RFI performance, ensuring reliable operation even when placed near other electronic equipment that might typically cause interference.

Maintenance

Proper maintenance ensures the longevity and optimal performance of your Garmin GPS 16x sensor:

- **Cleaning:** Regularly wipe the exterior of the sensor with a soft, damp cloth. Avoid using harsh chemicals or abrasive cleaners, as these can damage the casing.
- **Waterproof Design:** While the device is waterproof, ensure all connections are properly sealed if applicable to maintain its integrity in wet conditions.
- **Storage:** When not in use for extended periods, store the GPS 16x in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Software Updates:** Periodically check the Garmin website for any available software updates for your GPS 16x sensor. Updates can improve performance and add new features.

Troubleshooting

If you encounter issues with your Garmin GPS 16x sensor, consider the following troubleshooting steps:

- **No Satellite Signal:** Ensure the sensor has a clear, unobstructed view of the sky. Move away from tall buildings, dense foliage, or other objects that might block satellite signals.
- **Inaccurate Position:** Verify that the WAAS feature is enabled if you are in an area with WAAS coverage. Ensure the sensor is securely mounted and not experiencing excessive movement.
- **No Data Output:** Check all power and data connections to the host device. Confirm that the host device is configured correctly to receive NMEA 0183 data from the GPS 16x.
- **Interference:** If experiencing interference, try relocating the sensor away from other electronic devices, especially those emitting strong radio frequencies.

For further assistance, consult the detailed technical documentation provided with your OEM application or contact Garmin customer support.

Specifications

Feature	Detail
Product Type	GPS Sensor
Model Name	GPS 16x
Item Model Number	010-00258-62
Product Dimensions	7 x 6 x 1 inches (17.78 x 15.24 x 2.54 cm)
Item Weight	10.6 ounces (300.5 grams)
Country Of Origin	Taiwan
Connectivity Technology	Wi-Fi *(Note: This may refer to internal components or compatibility, as GPS sensors primarily use satellite signals for positioning.)*
Special Feature	Waterproof
Included Components	GPS 16x sensor unit
Mounting Type	Dashboard Mount

Warranty and Support

For detailed warranty information and technical support, please refer to the official Garmin website or contact Garmin customer service directly. Specific warranty terms may vary based on region and point of purchase.
Note: The product listing includes a legal disclaimer stating "All sales are final." Please verify warranty and return policies with your retailer or Garmin directly.

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