**Metoluar WS0232**

# Metoluar Wireless Weather Station User Manual

Model: WS0232

## Introduction

The Metoluar Wireless Weather Station provides comprehensive environmental monitoring for your home. It accurately measures indoor and outdoor temperature, humidity, wind speed, and wind direction. This manual will guide you through the setup, operation, and maintenance of your new weather station.


Image: Metoluar Wireless Weather Station, showing the indoor display unit and the outdoor multi-sensor array.

## Safety Information

- Do not submerge the remote unit in water, despite its weather-resistant design.
- Use only the specified battery types (AAA for display unit, AA for outdoor sensor).
- Ensure proper polarity when installing batteries.
- Keep the device away from extreme temperatures, direct sunlight, and corrosive materials.
- Do not attempt to disassemble or repair the unit yourself. Contact support if issues arise.
- Keep out of reach of children.

## Package Contents

- Wireless Weather Station Display Unit
- Outdoor Multi-Sensor Array (Wind Gauge, Temperature/Humidity Sensor)

- Mounting Bracket and Hardware (screws, nuts)
- Instruction Manual (this document)

## Setup

### Battery Installation

1. Install 2 AAA batteries (not included) into the display unit, observing correct polarity.
2. Remove the battery cover from the outdoor multi-sensor array.
3. Insert 2 AA batteries (not included) into the outdoor sensor, observing correct polarity. Lithium batteries are recommended for longer life.
4. Replace the battery compartment cover on the outdoor sensor.

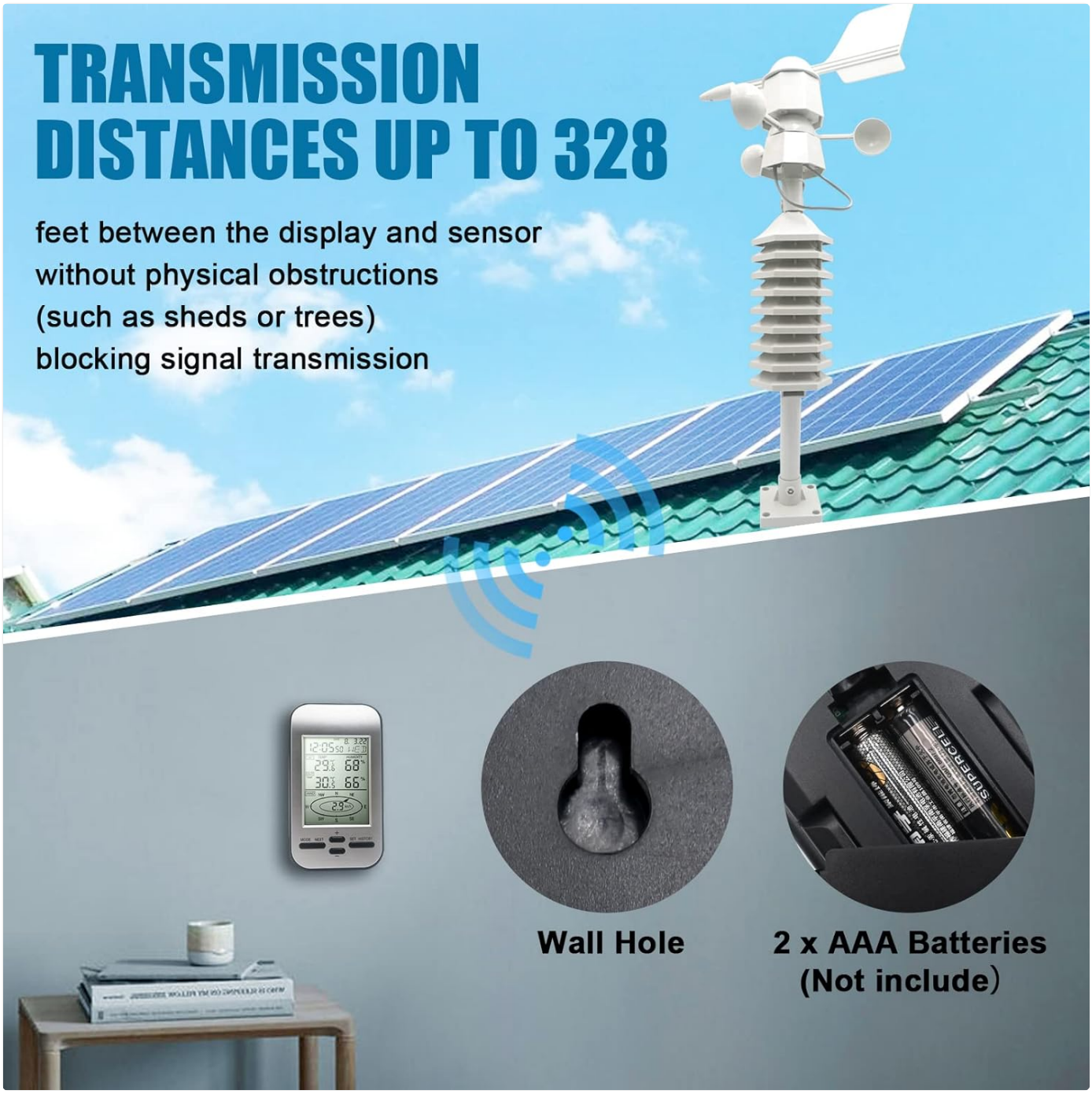


Image: Illustration showing the wall mounting hole on the display unit and the battery compartment for 2x AAA batteries (not included).

### Outdoor Sensor Assembly and Placement

Perform a transmission test before permanent mounting. Ensure the display unit can receive data from the outdoor sensor.

1. Properly align the compass and wind cup sensor together to create the wind base.
2. Insert the connector tube to the bottom of the wind cup sensor and fasten with an M3x22 screw with nut (included).
3. Plug the shorter cord into the port located on the bottom of the wind cup sensor.
4. Thread the longer cord into the housing through the opening.
5. Connect the wind base and top of housing and fasten with an M3x22 screw with nut (included).
6. Connect the plastic mounting tube into the base. Thread an M3x25 screw with nut (included) through the aligned openings and tighten.
7. Depending upon vertical or horizontal orientation, connect the transmitter to the plastic mounting tube and fasten together with an M3x18 screw (included).
8. Plug the long cord from the housing into the port marked "Wind".
9. Carefully slide the remote sensor with the mounting tube into the housing.

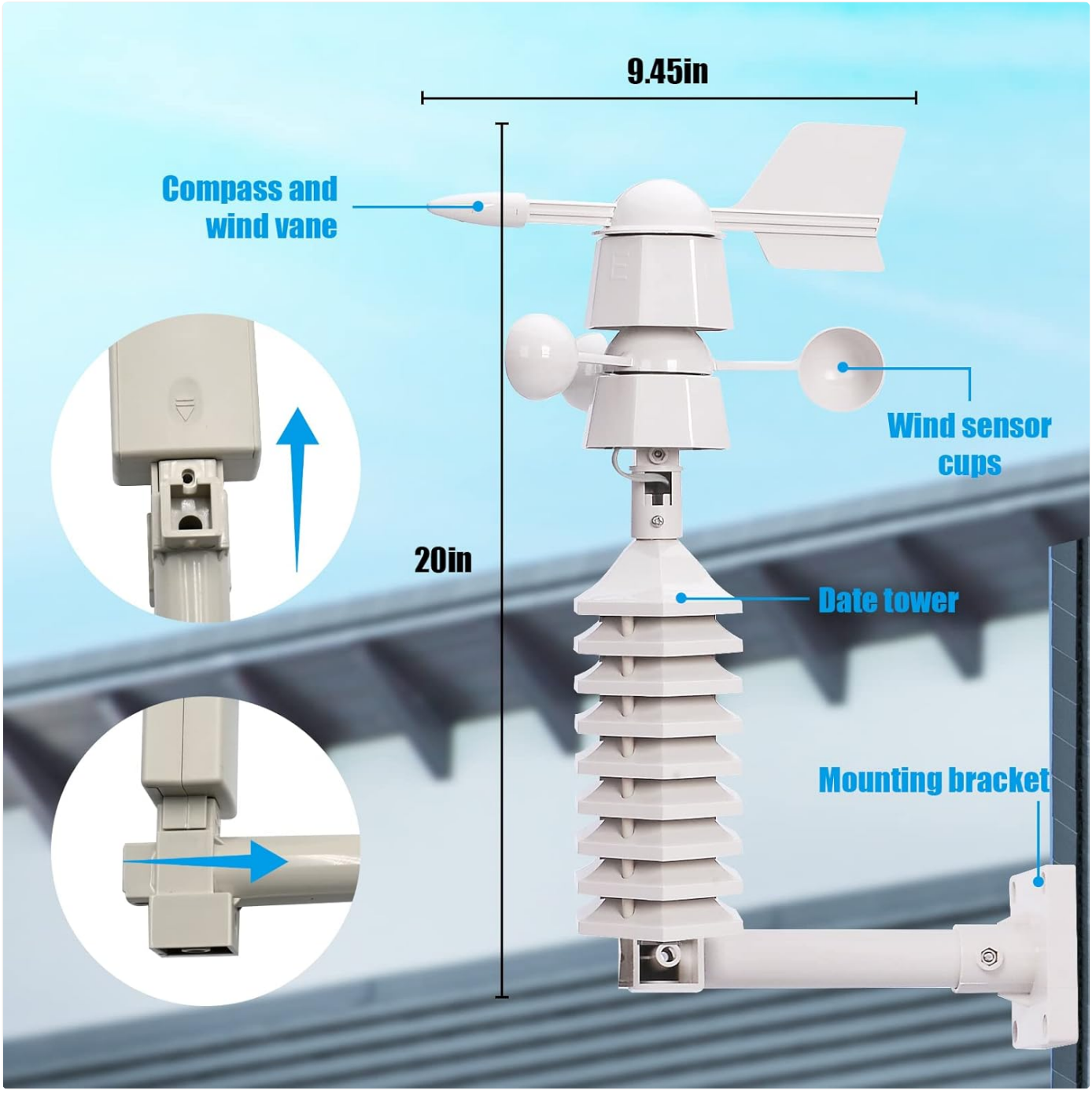


Image: Detailed view of the outdoor sensor components including compass, wind vane, wind sensor cups, date tower, and mounting

bracket, with dimensions.

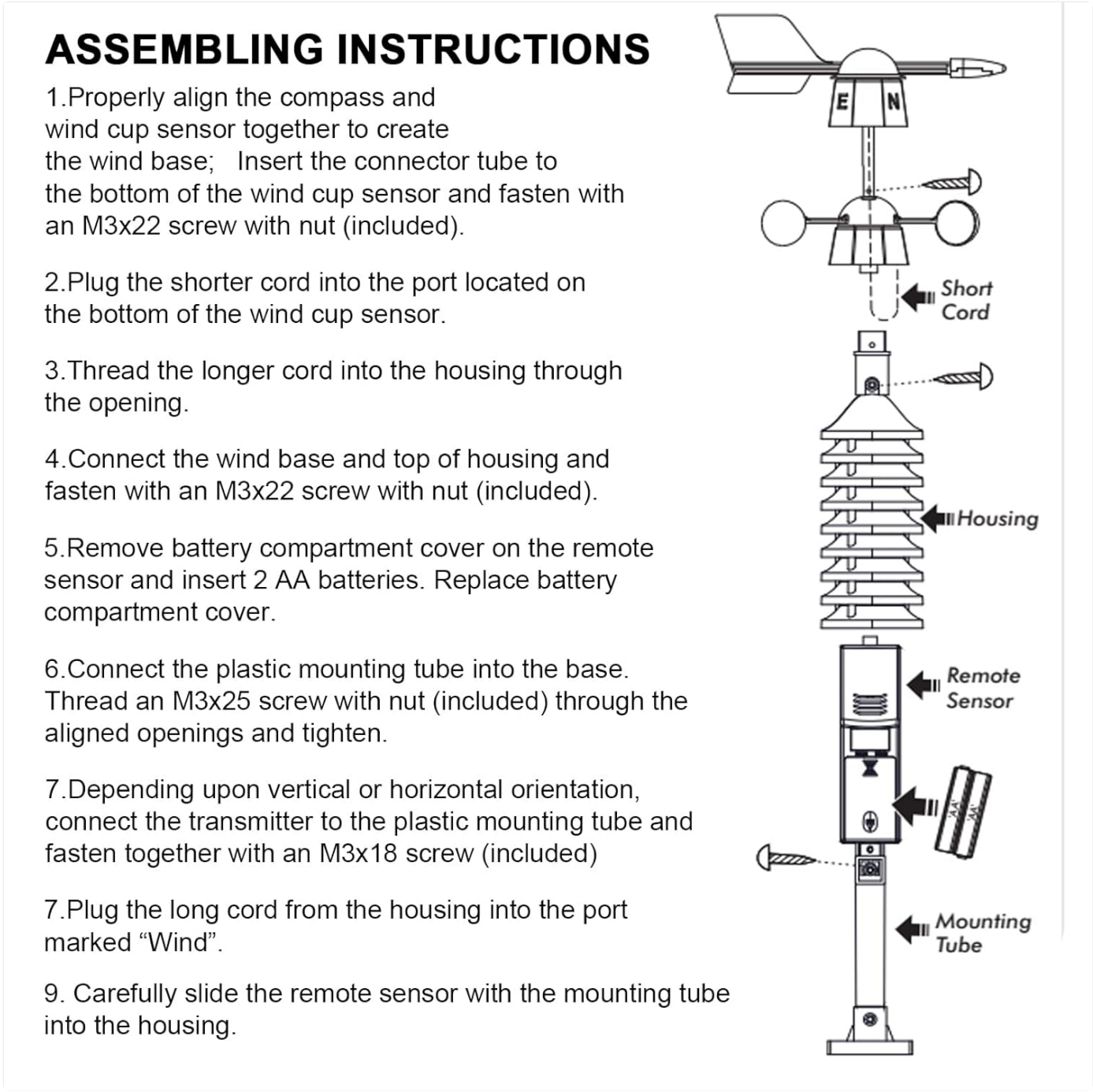


Image: Step-by-step diagram for assembling the outdoor multi-sensor array, showing screw placements and cable connections.

The outdoor sensor has a maximum transmission range of 328 feet (100 meters) without physical obstructions. Choose a location that allows for accurate wind and rain measurement, away from obstacles like trees or buildings that could block wind flow or rain collection.

## Operating Instructions

### Display Unit Overview


Image: Front view of the display unit, highlighting indicators for time, date, brightness adjustment, indoor/outdoor temperature, indoor/outdoor humidity, wind speed, and wind direction.

- **Time & Date:** Displays current time and date.
- **Indoor Temperature & Humidity:** Shows readings from the display unit's internal sensors.
- **Outdoor Temperature & Humidity:** Shows readings transmitted from the outdoor sensor.
- **Wind Speed & Direction:** Displays current wind speed and direction from the outdoor sensor.
- **Brightness Adjustment:** Adjusts screen backlight.

## Functions and Settings


Image: Display unit showing alarm clock and temperature warning icons, indicating its multi-functional capabilities.

- **Alarm Clock:** The unit can be set as an alarm clock. Refer to the display unit's buttons (MODE, NEXT, SET, HISTORY) for setting instructions.
- **Customizable Alerts:** Set high and low alarms for indoor/outdoor temperature, humidity, and wind speed. The unit will alert you when readings exceed or fall below your set thresholds.
- **Real-time Weather Display:** The screen provides real-time updates on weather conditions.


Image: The display unit showing current weather data, with background images depicting sunny, cloudy, rainy, and snowy conditions, illustrating its real-time weather measurement capabilities.

The display unit features buttons such as "MODE", "NEXT", "+" and "SET HISTORY" for navigating menus, adjusting settings, and reviewing historical data. Consult the on-screen prompts for specific operations.

## Maintenance

- **Cleaning:** Wipe the display unit and outdoor sensor with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Battery Replacement:** Replace batteries in both units when the low battery indicator appears on the display. It is recommended to replace all batteries at the same time.
- **Outdoor Sensor Check:** Periodically check the outdoor sensor for debris (leaves, dirt) that might obstruct the wind cups or rain collector. Clean as necessary.
- **Placement:** Ensure the outdoor sensor remains securely mounted and free from obstructions.

## Troubleshooting

| Problem | Possible Cause | Solution |
|---|---|---|
| No outdoor data displayed. | Batteries low or incorrectly installed in outdoor sensor; sensor out of range; interference. | Check/replace outdoor sensor batteries. Move sensor closer to display unit. Reduce interference sources. Re-establish connection (refer to setup section). |
| Inaccurate readings. | Sensor obstructed; improper placement; calibration needed. | Ensure outdoor sensor is free from obstructions. Place sensor in an open area. Consult manual for calibration steps if applicable. |
| Display unit not turning on. | Batteries low or incorrectly installed. | Check/replace display unit batteries. Ensure correct polarity. |
| Alarm not sounding. | Alarm not set or volume too low. | Verify alarm settings and volume. |

## Specifications

- **Model Number:** WS0232
- **Product Dimensions:** 2.54 x 2.54 x 2.54 cm (Display Unit); 912 g (Total Weight)
- **Power Source:** Battery Powered (Display: 2x AAA, Outdoor Sensor: 2x AA)
- **Transmission Range:** Up to 328 feet (100 meters) in open air
- **Temperature Accuracy:** ±1°C
- **Humidity Accuracy:** ±5%
- **Special Features:** Customizable Alert, Alarm, Clock
- **Style:** Modern
- **Shape:** Rectangular (Display Unit)

## Warranty and Support

For warranty information or technical support, please refer to the contact details provided with your purchase or visit the official Metoluar website. Please have your model number (WS0232) and purchase date ready when contacting support.

[pdf] Test Report

FCC PART 15 news Test Report DongGuan Meteorology Electronic Technology Co Ltd QX Small and medium sized weather stations 2ARZS 2ARZSQX qx

Page 1 of 27 FCC ID: 2ARZS-QX Report No.: LCSA060922011EA FCC TEST REPORT For Dongguan Meteorolog ... Small and medium-sized weather stations : WS2040 : WS1050, WS1060, WS1070, WS1080, WS2066, WS2041, **WS0232**, WS3040, WS3030, WS3060, WS3066, WS3070, WS3080, WS3041 : PCB board, structure and internal o...

lang:en score:12 filesize: 1.06 M page_count: 27 document date: 2022-09-27