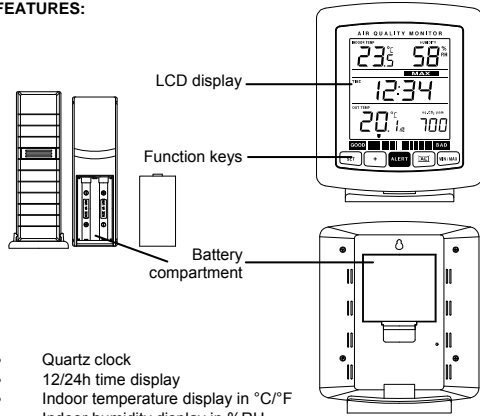


# WL 2000-AIR QUALITY MONITOR

## Instructions manual

### FEATURES:



- Quartz clock
- 12/24h time display
- Indoor temperature display in °C/°F
- Indoor humidity display in %RH
- Outdoor temperature display in °C/°F
- Air quality sensor for monitoring of indoor air quality
- Display of CO<sub>2</sub> equivalent values and quality indicator
- Air quality alarm per LED
- Low battery indicator

### SETTING UP:

1. Open the battery cover at the back of the transmitter and open the battery cover at the back of the air quality monitor.
2. Checking the correct polarization, insert 2 x C, IEC LR14, 1.5V Alkaline batteries into the battery compartment of the outdoor transmitter and insert 2 x AA, LR06, 1.5V Alkaline batteries in the air quality monitor. Replace the cover.
3. When the batteries are inserted, all the segments of the LCD will light up briefly. The monitor will receive data signal from the outdoor transmitter in a few seconds.
4. Hold the SET key for 3 seconds to manually enter a time. (See manual settings.)

### Note:

- The equivalent CO<sub>2</sub> ppm will only be displayed after 30 minutes.
- The air quality sensor will take up to 5 days after inserting battery to condition itself for the room it is placed. If the unit is placed into another room, there might be a reconditioning time of several days as well.
- Insert the holder to the bottom of the outdoor transmitter for table standing or insert it to the back of the transmitter for wall mounting purpose.
- Set the air quality monitor in a dry and shaded interior and away from sources of interference, such as televisions or metal plates. The transmitter should be mounted protected from rain and direct sunlight.

### INSTALLING AND REPLACING THE BATTERY IN THE AIR QUALITY MONITOR

The outdoor transmitter uses 2 x AA, LR06, 1.5V batteries. The air quality monitor uses 2 x C, LR14, 1.5V batteries. To install and replace the batteries, please follow the steps below:

1. Remove the cover at the back of the air quality monitor or the outdoor transmitter. Remove the old batteries and wait 2 minutes before the next step.
2. Insert batteries observing the correct polarity (see marking).
3. Replace compartment cover.

### BATTERY CHANGE:

It is recommended to replace the battery regularly to ensure optimum accuracy of the unit.

Add device to **MOBILE-ALERTS** system (MOBILE ALERTS gateway needed, sold separately)

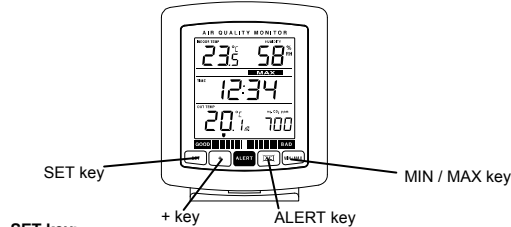
Open the app, dashboard is displayed. Tap "Add new sensor" and scan the QR code on the back of the WL 2000. Then set a name for the sensor. To set a name, select the transmitter and then tap on the left area of the pencil icon in the upper right.

### Read measurements

Now you can read the measurements on your mobile phone.

### KEY FUNCTIONS:

The Air Quality Monitor has 4 easy-to-use keys:



### SET key:

- Press and hold to enter the manual setting modes: 12/24 hour time display, manual time setting, °C / °F temperature display,
- Exit the manual setting mode

### + key:

- Press to change values of all manual settings

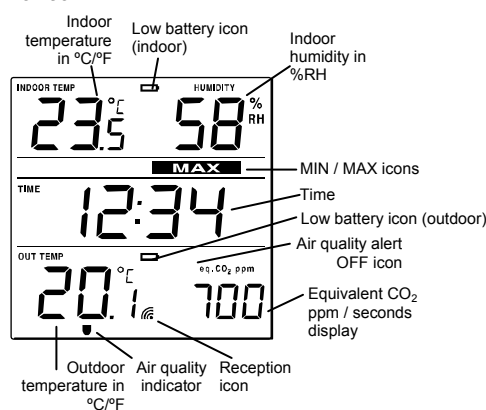
### ALERT key:

- Press to set the air quality alert to ON / OFF

### MIN / MAX key:

- Press to view MIN and MAX temperature and humidity values

### LCD SCREEN



### MANUAL SETTINGS:

The following manual settings can be done in the setting mode:

1. 12/24 hour time setting
2. Time setting
3. °C / °F temperature display setting

Press and hold the SET button for about 3 second to enter the setting mode:

### 12/24 HOUR TIME DISPLAY SETTING

- "12hr" or "24hr" flashes in the LCD. (default 24hr)
- Press the + key to select the "12hr" or "24hr" display mode.
- Confirm with the SET key and enter the **Manual time setting**.

### MANUAL TIME SETTING

To set the clock:

- The hour digits start flashing in the time display section.
- Use the + key to adjust the hours and then press SET key to go to the minute setting.
- The minute will be flashing. Press the + key to set the minutes.
- Confirm with the SET key and enter the **°C/°F temperature setting**.

### °C/°F TEMPERATURE UNIT SETTING

The default temperature reading is set to °C (degree Celsius). To select °F (degree Fahrenheit):

1. The "°C" will be flashing, use the + key to toggle between "°C" and "°F".
2. Confirm with the SET key and **exit the manual settings**.

**Max./ Min. for the indoor/outdoor temperature and humidity**  
Press "MIN/MAX" for displaying of max./min. of temperature and humidity.

### AIR QUALITY ALERT SETTING

Press the ALERT button to activate the air quality alert. The air quality alert OFF icon indicates that the alert is set off. No air quality OFF icon indicates that the alert is set on.

### Note:

The LED Alert blinks, if the air quality alert has been set to "ON" and the **Equivalent CO<sub>2</sub> ppm is higher than 1500ppm**:

### AIR QUALITY INDICATOR

The air quality indicator is located on the bottom of the LCD. It changes from GREEN to RED by according to the equivalent CO<sub>2</sub> ppm value.



\* The air quality value shown, after sensor conditioning, may differ +/- 250 ppm.

### Note:

A 9-level bar graph is used to indicate "GREEN" to "RED" air quality level in the surrounding environment:

Levels	Equivalent CO <sub>2</sub> ppm
GREEN (level 1)	450 – 600ppm
Level 2	650 – 800ppm
Level 3	850 – 1000ppm
Level 4	1050 – 1200ppm
Level 5	1250 – 1500ppm
Level 6	1550 – 1800ppm
Level 7	1850 – 2100ppm
Level 8	2150 – 2400ppm
RED (level 9)	≥ 2450ppm

### Troubleshooting

When no sensor readings are displayed in the app, check if the green LED on the gateway is permanently lit. If not, please check if:

- The gateway is properly connected to the power plug, the router and is turned on.
- Restart the station by removing the batteries for a minute and reinserting, to restart the device.
- Your phone is connected to the internet.
- The signal is weakened by thick walls and ceilings. Put the device in operation near the gateway and then locate a suitable location.

More information and detailed instructions can be found in the app at "Info" or at [www.mobile-alerts.eu](http://www.mobile-alerts.eu)

The declaration of Conformity can be found at: [www.mobile-alerts.eu/technoline/doc](http://www.mobile-alerts.eu/technoline/doc)

### SPECIFICATIONS:

Recommended temperature range:

+5°C to +40°C / +41°F to 104°F

**Temperature measuring range:**

Indoor: -9.5°C to +59.5°C with 0.5°C resolution / 14.0°F to +139.5°F with 0.5°F resolution (OFL displayed if outside this range. In degree F display, OFL will be displayed when over 99.9°F)

Outdoor: -39.9°C to +59.9°C with 0.1°C resolution / -39.8°F to +139.8°F with 0.2°F resolution (OFL displayed if outside this range. In degree F display, OFL will be displayed when over 99.9°F)

### Relative humidity measuring range:

Indoor: 20% to 95% with 1% resolution (display "- -" if temperature is OFL, except when the temperature is 100°F to 139.8°F; display "19%" if < 20% and "96%" if > 95%)

### Equivalent CO<sub>2</sub> ppm measuring range:

450ppm to 3950ppm with 50ppm resolution (display OFL > 3950ppm)

### Measuring intervals:

Indoor temperature checking interval: every 16 seconds

Indoor humidity checking interval: every 16 seconds

Air quality level checking interval: every 3 minutes

### Transmission:

Transmission range: 100m / 330 feet

Transmission frequency: 868 MHz

**Power consumption:** 2 x C, IEC LR14, 1.5V

**Dimensions** (L x W x H): 135.4 x 35.3 x 153.9 mm

### Trouble shooting

Keep in mind that the outdoor transmitter only has the optimal transmission range in open area with no obstructions. Each obstruction between the transmitter and the station (roof, walls, floors, ceilings, thick trees, etc.) will effectively cut the transmission range in half.

### Precautions

- This main unit is intended to be used only indoors.
- Do not subject the unit to excessive force or shock.
- Do not expose the unit to extreme temperatures, direct sunlight, dust or humidity.
- Do not immerse in water.
- Avoid contact with any corrosive materials.
- Do not dispose this unit in a fire as it may explode.
- Do not open the inner back case or tamper with any components of this unit.

### Batteries safety warnings

- Please read all instructions carefully before use.
- Use only alkaline batteries, not rechargeable batteries.
- Install batteries correctly by matching the polarities (+/-).
- Always replace a complete set of batteries.
- Never mix used and new batteries.
- Remove exhausted batteries immediately.
- Remove batteries when not in use.
- Do not recharge and do not dispose of batteries in fire as the batteries may explode.
- Ensure batteries are stored away from metal objects as contact may cause a short circuit.
- Avoid exposing batteries to extreme temperature or humidity or direct sunlight.
- Keep all batteries out of reach from children. They are a choking hazard.



Old batteries do not belong to domestic waste because they could cause damages of health and environment. Return used batteries to your dealer and collection points. As end user you are committed by law to bring back used batteries to distributors or other collecting points!

You must dispose of electrical devices separated from the General household waste. Take electronic waste to your local waste collection point or recycling centre. **R&TTE Directive 1999/5/EC**



Summary of the Declaration of Conformity. We hereby declare that this wireless transmission device does comply with the essential requirements of R&TTE Directive 1999/5/EC.