





INSTRUCTION MANUAL

1. SPECIFICATIONS

- Measuring range: 0 to 150 ppm

- Resolution: 1 ppm

- Accuracy: ± (3 ppm + 5% of reading) - Adjust: 4 points (0, 50, 100, 150 ppm)

- Sample temperature: 15 to 35 °C

- Sample volume: 10mL

- Light source: Light emitting diode

- Wavelength: 575nm

- Measuring cell: Glass cuvette

- Automatic shutdown: After 2 minutes

- Display: Oled

- Languages: English, Spanish, Italian and Portuguese

- Operating temperature: 0 to 50 °C

- Operating humidity: 10 to 90 %UR (non-condensing)

- Power supply: 9Vdc (1 battery 9V)

- Dimensions (WxHxD): 73 x 77 x 40 mm

- Weight: 120g (with battery)

- Method: Adaptation to the ferrous sulfate method

2. ACCESSORIES

Items included with the Nitrite Tester:

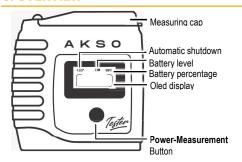
- 2 glass cuvettes with lids (Ø18.8 mm x 68mm) AK4551
- 1 flannel cloth
- 1 plastic carrying case
- 1 instructions manual

Items sold separately:

- Reagent for nitrite (48 tests) AK4045
- Verification standard solution kit (0, 100 ppm) AK4215

Before use, check the instrument carefully. If you detect any abnormalities, contact AKSO.

3. OVERVIEW



Reading - Nitrite

While Insert reagent is on the display:

- 11) Open the measuring cover and remove the cuvette from the compartment;
- 12) Remove the lid from the cuvette and add 1 sachet of Akso reagent for nitrite;
- 13) Close the cuvette with its lid and gently shake to dissolve the reagent in the sample;
- 14) Clean and dry the external surface of the cuvette using a soft cloth or paper towel;
- 15) Insert the cuvette into the measurement compartment;
- 16) For better precision, always insert the cuvette in the same position and close measuring cap;
- 17) Briefly press the **Power-Measurement** button, the display will show the message **Analyzing sample** followed by the measurement result in ppm;
- 18) After the measurement is complete, discard the analyzed sample and immediately rinse the glass cuvette with distilled or deionized water.

6. MAINTENANCE

BATTERY INSTALATION/REPLACEMENT

When the display displays **Low Battery**, replace the battery as described below:

- Turn off the instrument by holding down the **Power-Measurement** button until the display is switched off;
- 2)Remove the base clamping screw at the bottom of the instrument, using a "Philips" wrench;
- 3) Undock the base of the meter by pulling it carefully;
- Removed the used battery from the compartment and disconnect it from the clip;
- 5)Plug the new battery into the clip and snap it into the compartment;
- Replace the base of the instrument, observing its correct position;
- 7) Replace the Philips screw, tightening it without forcing it.

DISPOSAL OF BATTERIES AND ELECTRONICS



This product contains battery and electronic components. Do not dispose of them with other common household waste. Deliver them to the appropriate collection center in accordance with local guidelines. **Important:** The correct

disposal of electronics and batteries prevents negative effects on the environment and on human health!

4. OPERATING INSTRUCTIONS

MEASUREMENT

Preparation

- 1)Make sure that the temperature of the water sample to be analyzed is between 15 and 35°C to ensure the best accuracy:
- Wash the cuvette 3 to 4 times using the water sample that will be analyzed to set the container, avoiding reading deviations;
- 3) Fill the cuvette with 10mL of the sample. Notice the line in the cuvette body;
- 4) Close the cuvette with its lid;
- 5) Clean and dry the outer wall of the cuvette, using a wipe or soft towel paper, to eliminate residues, grease and moisture that may interfere with the measurement;

Zero point adjust

- 6) Press the **Power-Measurement** button to turn on the instrument. Will appear *Insert reference*;
- 7)Insert the cuvette into the compartment and close the measurement cover;
- 8)With the instrument in the VERTICAL position, briefly press the button. The sample will adjust at zero point;
- The message: Analyzing reference will appear on display;
- 10) Wait until the display shows the message *Insert* reagent;

5. SETTINGS

ACCESS AND NAVIGATION

- To access the settings menu on the instrument: briefly press the Power-Measurement button and the screen will show CONFIGS and options;
- To navigate the parameters that can be configured, briefly press the button;
- To access a parameter, press and hold the Power-Measurement button;
- To confirm a setting, press and hold the button until the device returns to the parameter selection menu;
- To return to a previous display or to measurement mode, select BACK and keep pressing the button.

SETTINGS - CONFIGS

ADJUSTMENT - measurement adjustment

Manual – manual adjustment of the reading curve at the points (0, 50, 100, 150 ppm).

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Note: Adjustments must be made at all points.

 Factory default – restore the reading curve factory adjustment.

LANGUAGE – language selection
PORTUGUES (portuguese), ENGLISH, ESPANOL
(espanhol) and ITALIANO (italian)

ERROR MESSAGES

CAUSE	SOLUTION
Battery without charge	Replace the battery
Sample outside the measuring range of the instrument.	Perform a new reading within the measuring rang of the instrument.
Error in the measurement procedure.	Perform a new reading following the measuremen procedure.
Failure to communicate with the sensor.	Contact Akso Technical Support.
	Battery without charge Sample outside the measuring range of the instrument. Error in the measurement procedure. Failure to communicate with

Go to the product page on the Akso website and make sure your manual version is up to date.



This instrument comes with a 2-year* warranty against manufacturing defects.

*Legal warranty included garantia@akso.com.br

