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ACE DA-7100

ACE DA-7100 Breathalyzer User Manual

Brand: ACE | Model: DA-7100

1. PRODUCT OVERVIEW

The ACE DA-7100 is a digital breathalyzer designed for personal alcohol concentration measurement. It utilizes an advanced electrochemical sensor to provide accurate and rapid results. The device features a clear digital display for easy reading of measurements and is operated with a single button.





Image 1: The ACE DA-7100 Breathalyzer, showing its compact design, digital display, power button, and attached mouthpiece. The display currently reads "0.00".

Key Features:

- Electrochemical sensor for precise alcohol detection.
- Single-button operation for ease of use.
- Rapid measurement and analysis of breath samples.
- Clear digital display for easy reading of results.

2. SAFETY INFORMATION AND IMPORTANT NOTES

Disclaimer: This device is intended for personal use as a guide only. It should not be used to determine whether a person is fit to drive or operate machinery. Legal alcohol limits vary by jurisdiction, and this device does not guarantee compliance with local laws. Always adhere to local regulations regarding alcohol consumption and driving.

- **Wait 20 Minutes:** For accurate results, wait at least 20 minutes after consuming alcohol, eating, or smoking before performing a test. Residual alcohol in the mouth can lead to inaccurate readings.
- **Temperature Range:** Operate the device within a temperature range of 0°C to 40°C (32°F to 104°F). Using it outside this range may affect accuracy or cause an "Out C" error.
- **Between Tests:** If a high alcohol concentration (e.g., 1.00% or higher) is detected, wait at least 5 minutes

before conducting another test to allow the sensor to clear.

- **Avoid Impacts:** Protect the device from strong impacts or drops, as this can damage the internal components and affect accuracy.
- **Environmental Factors:** Do not use the device in environments saturated with smoke or strong fumes, as this can interfere with the sensor.

3. PACKAGE CONTENTS

Please check the package to ensure all items are present:

- ACE DA-7100 Digital Breathalyzer
- 2 x AAA 1.5V Alkaline Batteries
- 6 x Sealed Mouthpieces
- Carrying Case (Nylon, black, with zipper)
- Wrist Strap (Grey)
- Multi-language Instruction Manual

4. SETUP

4.1. Battery Installation

1. Locate the battery compartment on the back of the device.
2. Open the battery compartment cover.
3. Insert two AAA 1.5V alkaline batteries, ensuring correct polarity (+/-).
4. Close the battery compartment cover securely.

4.2. Mouthpiece Attachment

1. Take one of the sealed mouthpieces from the package.
2. Firmly insert the mouthpiece into the designated port on the side of the breathalyzer.
3. Ensure the mouthpiece is securely attached to prevent air leakage during testing.

5. OPERATING INSTRUCTIONS

Follow these steps to perform an alcohol concentration test:

1. **Power On:** Press the ON button located on the front of the device, below the display.
2. **Warm-up:** The device will begin a countdown. This is the warm-up phase for the sensor.
3. **Prepare to Blow:** Once the countdown reaches zero, you will hear two beeps, and the display will show three lines followed by the word "START" flashing. This indicates the device is ready for a breath sample.
4. **Provide Breath Sample:** Take a deep breath. Then, blow continuously and steadily into the mouthpiece for approximately 5 seconds. Moving lines may appear on the display during this process.
5. **Read Results:** After a few seconds, the estimated Blood Alcohol Concentration (BAC) value will be displayed. The result will flash for a short period.
6. **Automatic Shut-off:** The device will automatically power off after displaying the result to conserve battery life.

6. MAINTENANCE

6.1. Mouthpiece Care

- For hygiene, it is recommended to use a new mouthpiece for each test, especially when multiple users are involved.
- Mouthpieces can be cleaned and reused by soaking them in a disinfectant solution (e.g., Amuchina) for about 15 minutes, then rinsing thoroughly and air-drying.

6.2. Battery Replacement

When the "BA" message appears on the display, the batteries are low and should be replaced immediately with new AAA 1.5V alkaline batteries to ensure accurate readings.

6.3. Calibration

To maintain the high precision of the ACE DA-7100, it is recommended to send the device for professional calibration. This should ideally be done:

- After a maximum of 12 months from the first use.
- After approximately 500 measurements.

Regular calibration ensures the device continues to provide reliable results, as precision may decrease over time with use.

6.4. Storage

Store the breathalyzer in its provided carrying case in a dry place, away from direct sunlight and extreme temperatures. Avoid storing it in environments below 0°C or above 40°C.

7. TROUBLESHOOTING

Problem/Error Message	Possible Cause	Solution
"Flo" on display	Insufficient or irregular breath sample.	Ensure you take a deep breath and blow continuously and steadily into the mouthpiece for the full 5 seconds when "START" is flashing.
"Out C" on display	Operating temperature is outside the recommended range (0°C - 40°C).	Move the device to an environment within the specified temperature range and allow it to acclimate before retesting.
"BA" on display	Low battery power.	Replace both AAA batteries with new 1.5V alkaline batteries immediately.
Inaccurate or inconsistent readings	◦ Tested too soon after eating, drinking, or smoking. ◦ Sensor requires calibration. ◦ Mouthpiece not securely attached.	◦ Wait at least 20 minutes before retesting. ◦ Consider sending the device for professional calibration. ◦ Ensure mouthpiece is firmly inserted.

8. SPECIFICATIONS

Feature	Detail
Model Number	DA-7100
Sensor Type	Electrochemical
Dimensions (L x W x H)	12 x 4.8 x 2 cm (approximately)
Weight	93 g (including batteries)
Power Source	2 x AAA 1.5V Batteries (included)
Operating Temperature	0°C to 40°C (32°F to 104°F)
Measurement Accuracy	0.05‰ with 1.00‰ BAC at 25°C (as per manufacturer's stated margin of error)

9. WARRANTY AND SUPPORT

For specific warranty information, please refer to the documentation provided with your purchase or contact ACE customer support directly. Regular calibration is crucial for maintaining the device's accuracy and is recommended annually or after 500 tests.

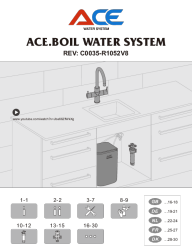
For technical assistance, calibration services, or inquiries, please visit the official ACE website or contact their customer service department. Contact details are typically found in the product packaging or on the manufacturer's website.

You can find more information about ACE products and support at the [ACE Brand Store](#).

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Related Documents - DA-7100

	ACE Pro Digital-Alkoholtester: Bedienungsanleitung und Technische Daten Umfassende Bedienungsanleitung für den ACE Pro digitalen Alkoholtester. Enthält Informationen zur Bedienung, Kalibrierung, Wartung, technischen Daten und Garantie von ACE Handels- und Entwicklungs GmbH.
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	ACE App: Anleitung zum Zurücksetzen des Passworts Schritt-für-Schritt-Anleitung, wie Sie Ihr Passwort in der ACE App zurücksetzen können. Erfahren Sie, wie Sie auf Ihr Konto zugreifen, wenn Sie Ihr Passwort vergessen haben.
	ACE.BOIL Water System User Manual and Installation Guide Comprehensive user manual and installation guide for the ACE.BOIL Water System by ACE Water Systems. Covers product features, safety, installation, maintenance, and troubleshooting for this kitchen boiling water dispenser.
	ACE All-in-one Karaoke Player User Guide Comprehensive user guide for the ACE All-in-one Karaoke Player, detailing features, setup, song management, and operation for an enhanced karaoke experience. Learn how to select songs, manage your library, and customize settings.
	ACE Damping Technology Catalogue: Industrial Shock Absorbers & Motion Control Explore ACE's comprehensive catalogue on damping technology, featuring industrial shock absorbers, gas springs, vibration control solutions, and automation components. Find technical specifications and application examples.
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Documents - ACE – DA-7100

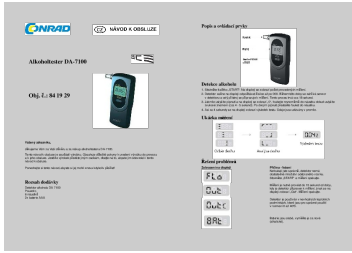


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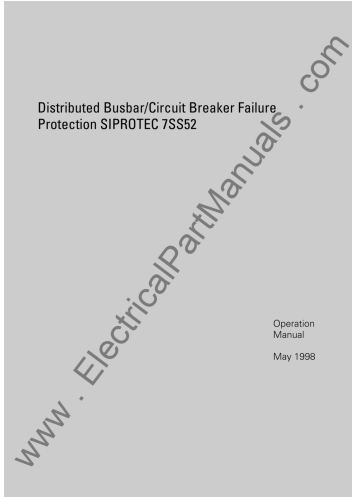


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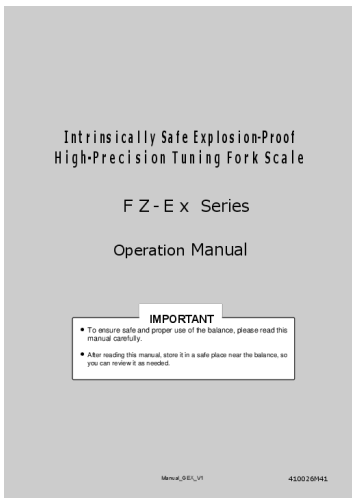
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[pdf] User Manual Declaration of Conformity

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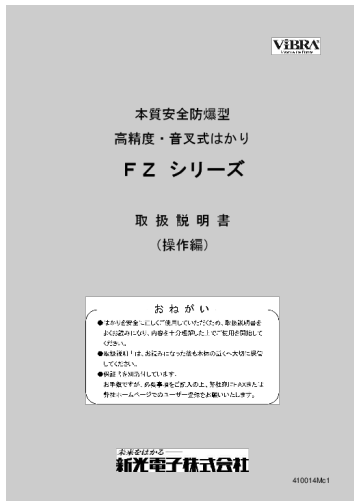


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Mouthpiece for breathalyzers of ACE series ACE article number 100074 Each mouthpiece is hygienically packaged and has a rebreathing barrier. This prevents accidental aspiration of saliva or germs from the blow-in channel of alcohol testers. Note: The ACE mouthpiece is intended for single use; that i...

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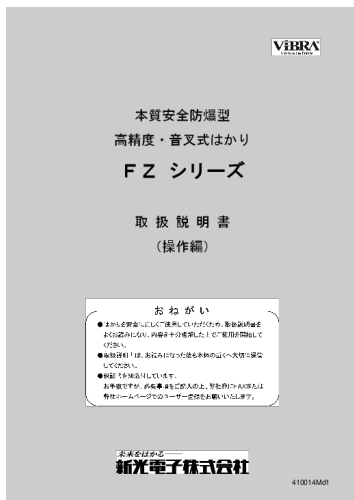
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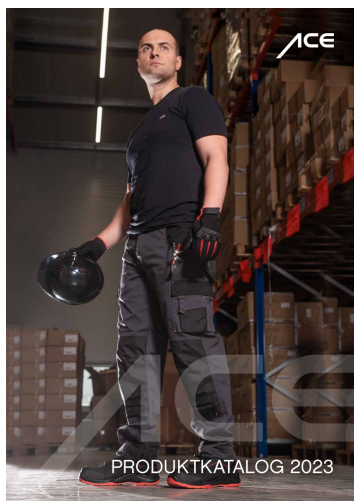
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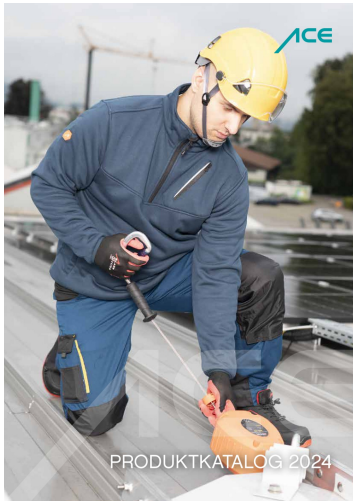
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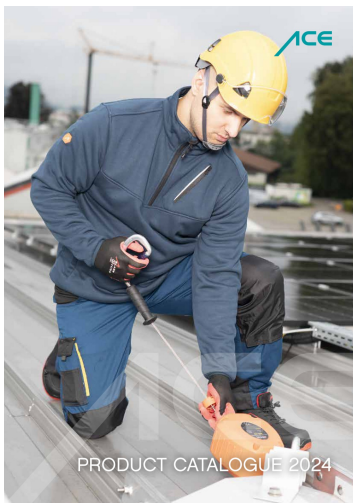
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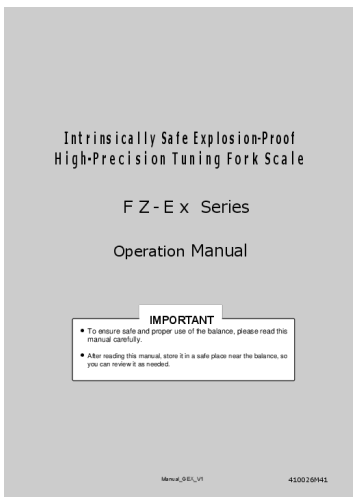


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