

KL-0860-100 Brake Fluid Tester



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1. READ AND UNDERSTAND FOR SAFETY REASONS



Please read and understand these operating instructions **before using** the brake fluid tester and observe all safety and warning instructions! Incorrect use can lead to **DEATH or SERIOUS INJURY**! The operating instructions form an integral part of the brake fluid tester. Keep them in a safe place for future reference and always pass them on to subsequent users of the brake fluid tester! The brake fluid tester complies with recognised technical standards and the relevant safety regulations!

⚠ Restriction applicable to Austria (section 57a of the motor vehicles act):

This device cannot be calibrated and therefore does not meet the requirements for testing equipment set out in the Testing and Inspection Bodies Regulation (PBStV, Annex 2a) for use in the context of periodic vehicle inspections under Section 57a of the Road Traffic Act (KFG) ('Pickerl inspection'). The device is therefore intended solely for private, non-official testing purposes **in Austria**. Use in official or commercial testing in accordance with Section 57a of the Road Traffic Act (KFG) is not permitted.

1.1 Target audience

These operating instructions are intended **solely** for trained professionals working in specialist vehicle workshops!

The brake fluid tester **must only** be used in specialist vehicle workshops by trained professionals who are familiar with the basic regulations on health and safety at work and accident prevention!

➤ **Never** allow unauthorised, inexperienced or underage persons, as well as children or people with physical, sensory or mental disabilities, to use the brake fluid tester!

1.2 Obligations of the owner

Under the Industrial Safety Regulation (*BetrSichV*), employers are obliged to provide their employees with safe work equipment that complies with recognised technical standards and the relevant safety regulations!

➤ The owner of the brake fluid tester **must** ensure that **only** trained specialists in specialist garage workshops use the brake fluid tester!

➤ The owner of the brake fluid tester **must** ensure that the user has access to the operating instructions and has read and understood them in full **before** using the brake fluid tester!

➤ The owner of the brake fluid tester **must** ensure that the user is familiar with the basic health and safety regulations and that personal protective equipment is made available to them!

1.3 Intended use

The brake fluid tester ...

➤ **may only** be used on motor vehicles such as passenger cars, vans and motorcycles with DOT 3, DOT 4 and DOT 5.1 glycol-based brake fluids!

➤ **may only** be used to measure the water content (%) in brake fluids!

➤ **may only** be used with GEDORE Automotive original spare parts and accessories!

➤ **may only** be used in the manner described in this operating manual!

⚠ Any other use may result in **DEATH or SERIOUS INJURY!**

1.4 Reasonably foreseeable misuse

The brake fluid tester ...

➤ **must never** be used to measure other liquids or in any way other than that for which it is intended!

➤ **must never** be used in potentially explosive atmospheres or immersed in highly flammable liquids and gases!

➤ **must never** be used with safety devices that have been bypassed, modified or removed!

➤ **must never** be altered, modified or used for purposes other than those intended without authorisation!

⚠ **Always** use the brake fluid tester for its intended purpose. Any other use may result in **DEATH or SERIOUS INJURY!**

1.5 Basic safety and warning instructions

⚠ WARNING – Failure to comply may result in serious injury or death





When using the brake fluid tester, **always** observe the following safety and warning instructions, as well as the precautions set out below, to avoid **DEATH** or **SERIOUS INJURY** and damage to property resulting from hazards, incorrect use, misuse and unsafe handling!

- ✔ Please read and understand these operating instructions **before using** the brake fluid tester and observe all safety and warning instructions to ensure **safe use!**
- ✔ When using the brake fluid tester, **always follow** the basic regulations on health and safety, accident prevention and environmental protection!
- ✔ **Always** use the brake fluid tester for its intended purpose! **GEDORE Automotive GmbH** accepts **no** liability whatsoever for any injuries or damage resulting from improper use or failure to comply with safety regulations, nor will it honour any warranty or guarantee claims!
- ✔ **Before each use, carefully** check the brake fluid tester for damage, loose parts or unauthorised modifications, and **never** use it if any such issues are found!
- ✔ The brake fluid tester must **only** be opened, inspected and repaired by specially trained technical staff at **GEDORE Automotive GmbH!**
- ✔ **Only** use genuine spare parts and accessories from **GEDORE Automotive GmbH** for the brake fluid tester!
- ✔ When using the brake fluid tester, **always** follow the manufacturer's vehicle-specific instructions!
- ✔ **Make sure** you avoid dropping the brake fluid tester or subjecting it to knocks or impacts!
- ✔ **Never** use the brake fluid tester if you are tired or under the influence of alcohol, drugs or medication!
- ✔ **Always** keep the brake fluid tester out of the reach of unauthorised persons, inexperienced individuals, minors, children and people with reduced physical, sensory or mental capabilities!
- ✔ Electrical and electronic equipment can cause sparks. **Never** use the brake fluid tester in areas where there is a risk of explosion, and **never** immerse it in flammable liquids or gases!
- ✔ **Be sure to** avoid exposing the videoscope to direct sunlight for prolonged periods, and keep it away from heat and fire!
- ✔ The measuring probe on the brake fluid tester is dust- and water-resistant to **IP67** standard and may be briefly immersed in brake fluid. The other components are not waterproof. You **must** therefore avoid contact with liquids and **never** use the device **with** wet hands!
- ✔ **Under no circumstances** should you bend the probe on the brake fluid tester. Doing so may damage it!
- ✔ **Always** wear your personal protective equipment, such as safety goggles and protective gloves, whenever necessary whilst at work!
- ✔ Stop work **immediately** if you are unsure about how to use the brake fluid tester, and **contact GEDORE Automotive GmbH if necessary!**
- ✔ We reserve the right to make technical changes and correct any errors!

1.6 Labelling of warning notices

Warnings alert you to potential hazards. Always follow them to avoid **DEATH** or **INJURY!**

Warnings in this operating manual are classified as follows for ease of identification:

Warning signs	Meaning
 WARNING	Warning of a dangerous situation which, if not avoided, could result in DEATH or SERIOUS INJURY .
 CAUTION	Warning of a hazardous situation which, if not avoided, may result in MINOR or MODERATE INJURY .
 ATTENTION	A warning of a situation which, if not avoided, may result in damage to the tool or to something in its vicinity.
	Pointers to important information and useful tips.

1.7 Care and storage of the

ATTENTION

Improper care and storage can cause damage to the brake fluid tester.

- ✔ **Never** immerse the brake fluid tester in water, solvents or other cleaning fluids.
- ✔ After use, clean the brake fluid tester with a clean, soft, dry cloth.
- ✔ Keep the brake fluid tester and the instruction manual in a dry and clean place.

1.8 Environmentally friendly disposal

Dispose of the brake fluid tester and packaging material in an environmentally responsible manner, in accordance with legal requirements. If necessary, contact your local authority to enquire about environmentally friendly disposal options.

1.9 Duty to provide information under the Electrical Equipment Act (*ElektroG*)

Electrical and electronic equipment contains hazardous substances and valuable resources. You should therefore not dispose of faulty appliances in your household waste, but instead send them for separate recycling. This is indicated by the crossed-out wheellie bin symbol on the appliance. If your old appliance cannot be reused, you are welcome to send it to us at the following address:

GEDORE Automotive Ltd
41 Breslauer Straße
78166 Donaueschingen



We will then take full responsibility for the collection and proper disposal of the items through our certified waste management specialists.

1.10 Information requirements under the Battery Act (*BattG*)

Batteries must not be disposed of with household waste. This is indicated by the crossed-out wheellie bin symbol on the device. As the end user, you are legally obliged to return them. Batteries may contain harmful substances which, if not stored or disposed of properly, can be harmful to the environment or your health. Used batteries can be returned to designated collection points, e.g. at local collection points or in shops. Used batteries must only be handed in at collection points when they are fully discharged and with the battery terminals protected against short circuits!

The symbols shown on the batteries have the following meanings:

Crossed-out wheellie bin = The battery must not be disposed of with household waste.

Pb = The battery contains more than 0.004% by mass of lead.

Cd = The battery contains more than 0.002% by weight of cadmium.

Hg = The battery contains more than 0.0005% by weight of mercury.



2. PRODUCT DESCRIPTION

2.1 KL-0860-100 - Brake Fluid Tester

Suitable for use in all cars, vans and motorcycles fitted with conventional DOT 3, DOT 4 and DOT 5.1 glycol-based brake fluids.

For the professional testing of brake fluid quality. The test is carried out using an electrolytic measurement method and indicates the water content (%) in the brake fluid.

- Rapid analysis of DOT 3, DOT 4 and DOT 5.1 brake fluids
- Precise measurement of water content in % using an electrolytic measurement method
- Wide measurement range from 0.1% to 6.0% moisture content
- Fast measurement results within 0.5 seconds
- Simple and convenient one-handed operation
- Automatic switch-off function after 5 minutes
- Easy-to-read 2-inch LCD display with backlight
- Visual and audible alarm function, depending on the quality of the brake fluid
- Flexible measuring probe, 250 mm long
- IP67-rated measuring probe, dust- and water-resistant
- Powered by a 9 V block battery (*not included!*)
- Weight without battery: 120 g



2.2 Scope of delivery

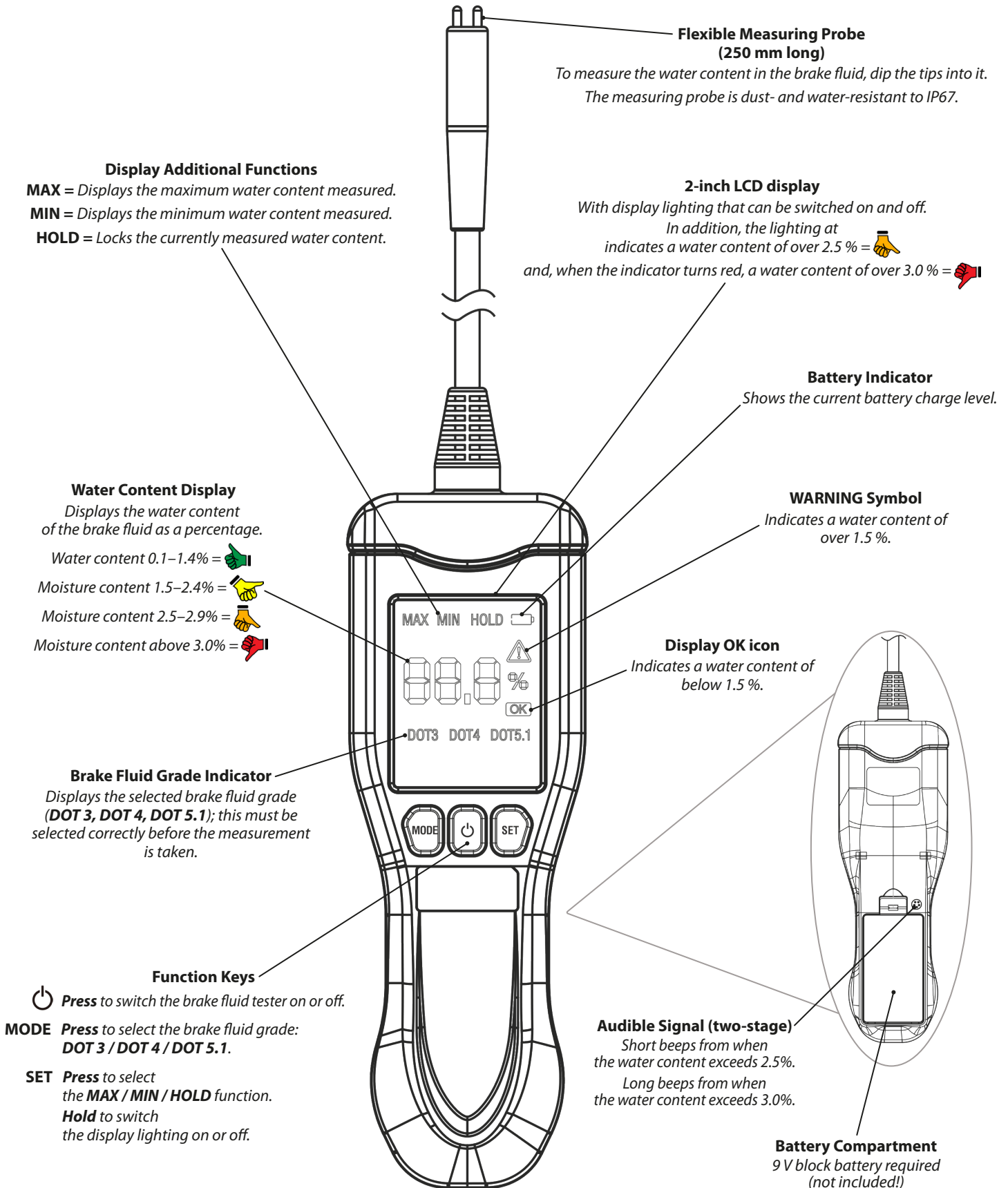
- 1x brake fluid tester
- 1x product manual

2.3 Technical Specifications


For brake fluid grades:	DOT 3, DOT 4, DOT 5.1
Measuring range (moisture content in %):	min. 0.1% – max. 6.0%
Time taken to display the measurement result:	0.5 seconds
LCD display:	2" (54 mm)
Measuring probe:	IP67 (dust- and water-resistant)
Power supply:	9 V block battery (<i>not included!</i>)
Temperature range:	-10 °C to +50 °C
Weight:	120 g (<i>excluding battery!</i>)







3. OVERVIEW OF OPERATION AND FUNCTIONS


This overview sets out the basic components, terminology, information and instructions for using the brake fluid tester.



Measure the water content (%) of the brake fluid:

1. Before using the brake fluid tester for the first time, insert a standard 9V block battery into the battery compartment. This is not included in the scope of delivery!
 2. Switch on the brake fluid tester. To do this, briefly press the button ; the display will switch on and light up fully for a moment (self-test).
 - ① If the brake fluid tester does not switch on, check the battery charge and replace it if necessary.
 3. By holding down the **SET** button for **about 3 seconds**, you can switch the display backlight on or off.
 4. Follow the manufacturer's instructions to identify the correct brake fluid grade (**DOT 3 / DOT 4 / DOT 5.1**) for your vehicle, then select this correctly on the brake fluid tester. To do this, briefly press the **MODE** button; the selected brake fluid grade will appear on the display.
- ⚠** When interpreting the measurement results, always follow the vehicle manufacturer's specifications!
5. Dip the tip of the measuring probe into the brake fluid to be tested. After about 0.5 seconds, the measurement result (water content of the brake fluid in %) will appear on the display.
 - ① By pressing the **SET** button, you can use the **MAX / MIN / HOLD** functions during measurement.

Moisture content %			beep	Display lighting	Condition assessment
0,1 – 1,4 %	Lights up	-	-	-	
1,5 – 2,4 %	-	Lights up	-	-	
2,5 – 2,9 %	-	Lights up	Short beeps	Lights up ORANGE	
over 3.0%	-	Lights up	Long beeps	Lights up RED	

6. Switch off the brake fluid tester after use. To do this, briefly press the button .
- ① When not in use, the brake fluid tester switches itself off automatically after 5 minutes .
7. Finally, wipe the probe on the brake fluid tester with a clean, soft and dry cleaning cloth.



4. EU Declaration of Conformity / UK Declaration of Conformity

EU DECLARATION OF CONFORMITY (Original EU Declaration of Conformity)

Name and address of the manufacturer

GEDORE Automotive Ltd
 41 Breslauer Straße
 78166 Donaueschingen, GERMANY



We hereby declare that the product described below

Name: Brake fluid tester

Series / Type: KL-0860-100

all relevant provisions of the **EMC Directive 2014/30/EU** on the electromagnetic compatibility of electrical and electronic equipment, the **Low Voltage Directive 2014/35/EU** on the harmonisation of the laws of the Member States relating to the making available on the market of electrical equipment designed for use within certain voltage limits, and the **RoHS Directives 2011/65/EU and 2015/863/EU (RoHS III)** on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

This warranty will be void if the product is altered or modified without our consent.

Applied, harmonised EN standards:

- EN 55011:2016+A2:2021 - *Industrial, scientific and medical equipment – Radio disturbance – Limits and methods of measurement*
- EN 61010-1:2010+A1:2019 - *Safety requirements for electrical equipment for measurement, control and laboratory use – Part 1: General requirements*
- EN IEC 61000-3-2:2019+A1:2021 - *Electromagnetic compatibility (EMC) – Part 3-2: Limits – Limits for harmonic currents (equipment input current ≤ 16 A per conductor)*
- EN 61000-3-3:2013+A1:2019 - *Electromagnetic compatibility (EMC) – Part 3-3: Limits – Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems for equipment with a rated current ≤ 16 A per conductor, not subject to any special connection conditions*
- EN IEC 61000-6-1:2019 - *Electromagnetic compatibility (EMC) – Part 6-1: Generic standards – Immunity for residential, commercial and light industrial environments*

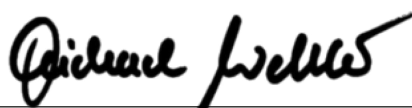
Other applicable national technical standards and specifications:

- DIN EN IEC/IEEE 82079-1:2021-09 - *Preparation of user information (instructions for use) for products - Part 1: Principles and general requirements*

Authorised representative of GEDORE Automotive GmbH for the compilation of all technical documentation:

Head of Product Development, Breslauer Straße 41, 78166 Donaueschingen, GERMANY

Donaueschingen, 27 November 2023



Mr Michael Wehler, Head of Global Business Development, GEDORE Automotive GmbH

UK Declaration of Conformity (Original UK Declaration of Conformity)**Name and address of the manufacturer**

GEDORE Automotive Ltd
41 Breslauer Straße
78166 Donaueschingen, GERMANY



We hereby declare that the product described below

Designation: Brake fluid tester

Series / Type: KL-0860-100

complies with all relevant provisions of the **Electromagnetic Compatibility Regulations 2016** on the harmonisation of the laws of the Member States relating to electromagnetic compatibility, the **Electrical Equipment (Safety) Regulations 2016** on the harmonisation of the laws of the Member States relating to the making available on the market of electrical equipment designed for use within certain voltage limits and the **Electrical and Electronic Equipment Regulations 2012 (as amended)** on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

This declaration shall cease to be valid if the product is altered or modified without our consent.

Designated (UK) or harmonised (NI) standards applied:

BS EN 55011:2016+A2:2021 - Industrial, scientific and medical equipment. Radio-frequency disturbance characteristics. Limits and methods of measurement

BS EN 61010-1:2010+A1:2019 - Safety requirements for electrical equipment for measurement, control, and laboratory use
General requirements

BS EN IEC 61000-3-2:2019+A1:2021 - *Electromagnetic compatibility (EMC). Limits. Limits for harmonic current emissions (equipment input current = 16 A per phase)*

BS EN 61000-3-3:2013+A2:2021 - *Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with a rated current ≤ 16 A per phase and not subject to conditional connection*

BS EN IEC 61000-6-1:2019 - *Electromagnetic compatibility (EMC) – Generic standards. Immunity standard for residential, commercial and light-industrial environments*

BS EN IEC 61326-1:2021 - *Electrical equipment for measurement, control and laboratory use. EMC requirements. General requirements*

Other technical standards and specifications applied:

EN IEC/IEEE 82079-1:2020 - *Preparation of information for use (instructions for use) of products - Part 1: Principles and general requirements*

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Donaueschingen, 27 November 2023

Mr Michael Wehler, Head of Global Business Development, **GEDORE Automotive GmbH**

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