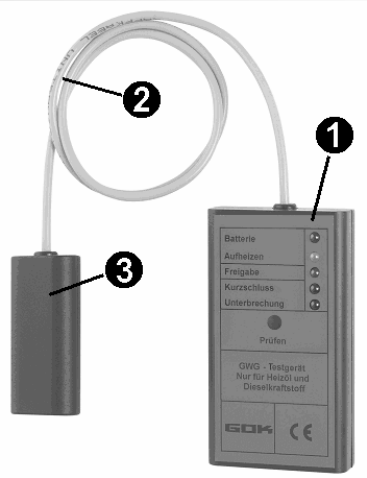
Limit Monitor Testing Device Type TG 1

Function Testing Device for Limit Monitors for Fuel and Diesel Oil



❶ Testing device

❷ Connecting line

❸ Plug

GENERAL

The sole purpose of the TG 1 testing device is to check the function of limit monitors according to the Technical Regulations for Combustible Liquids which are installed in storage containers for fuel and Diesel oil. These Operating Instructions must be observed.

DESIGN

The testing device comprises the device with the electronic measuring equipment and the batteries, the plug, and the connecting line.

The testing device is operated with two 9 Volt monobloc batteries. It is coupled to the limit monitor to be checked by means of the included plug. The functions are indicated after pressing the pushbutton **Check** at the 5 LEDs.

OPERATING MEDIA	Light fuel oil EL	according to DIN 51603-1
	Diesel fuel	according to DIN EN 590
	Plant methyl ester Diesel fuel	according to DIN V 51606 / DIN EN 14213

COMMISSIONING

Insert the two batteries to start the operation of the limit monitor testing device. see REPLACING BATTERIES!

OPERATION

1. **Battery LED**

This LED indicates the loading status of the battery. If this LED does not shine when the **Check** pushbutton is pressed, the batteries must be replaced.
NOTE: If the battery is almost empty, this LED may go out for a short time during the **Heating** function. It is imperative that this LED shines when the **Release** LED lights up.
When **Short-circuit** is indicated, the **Battery** LED will not shine.

2. LED 'Heating'
This LED is lighted up as long the limit monitor to be checked is being heated.

3. LED 'Release'
This LED shines when the limit monitor is o.k. after being heated.

4. LED 'Short circuit'
This LED shines when there is a short-circuit in the limit monitor or the line to the limit monitor.
NOTE: If this LED lights up during testing, the pushbutton is to be released at once, as otherwise the batteries will discharge quickly.

5. LED interruption

This LED shines when there is an interruption in the limit monitor or the line to the limit monitor.

6. Pushbutton 'Check'
The checking process is initiated by pressing and keeping pressed this pushbutton.

CHECKING PROCESS

- Press pushbutton **Check**.
  - The LEDs **Battery** and **Interruption** must shine.
  - If the LED **Battery** does not shine, replace batteries.
- Set the plug on to the monitor limit to be checked.
  Polarity must not be observed.
- Press **Check** and keep pressed**.**
  - Now, the LEDs **Batteries** and **Heating** light up.
  - After a heating period of 15 to 20 seconds, the LED **Heating** goes out, and the LED **Release** lights up. If the LED **Heating** does not go out after a heating period of 25 – 30 seconds, the checking process must be aborted.
    NOTE: Check whether the storage container is filled to maximum and the limit monitor is inserted into or moistened with the operating medium. In these cases, release is not possible.
  - Any malfunction is indicated by **Short-circuit** or **Interruption.**
  - When **Release** lights up, the checking of the limit monitor is completed successfully.

MAINTENANCE

The device is maintenance-free.
If the device is not used for a prolonged period of time, the batteries should be removed as battery leaks may damage the device.

REPLACING OF BATTERIES

- Always open the safety screw at the back of the testing device.
- Lightly press together the long sides of the housing to take off the front cover.
- Replace batteries – observe polarity.
- Repeat in reverse order to close the device.

REPAIR

In case of malfunctions, return the device to the manufacturer. Any unauthorized handling will result in loss of any warranty claims.

TECHNICAL DATA

CE according to EMC regulation

Operating voltage	18 V	Radio interference suppression	acc. EN 50,081-1
Battery	2 x 9 V monobloc batteries	Immunity	acc. EN 50 082-2
Degree of protection	IP 40 DIN 40 050		
Permissible ambient temperature		-10°C to +40°C (14.00°F to +104.00°F)	

GOK Regler- und Armaturen-Gesellschaft mbH & Co KG
Obernbreiter Straße 2-16, D-97,340 Marktbreit ☎ +49 9332 404 0 Fax +49 9332 404 43
E-mail: info@gok-online.de Internet: www.gok-online.de

Art. no. 15 098-51