

Quick Reference Guide

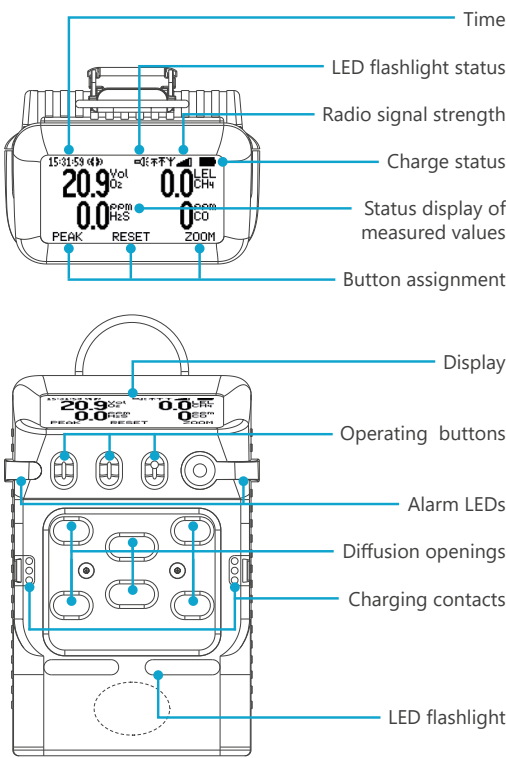
**Measurement method**  
Sensor-dependent

**Environmental conditions (operation)**  
Permitted operating temperature: -20 to +50 °C  
Permitted humidity: 5 to 95 % r. h.  
Permitted air pressure: 70 to 130 kPa

**Power supply**  
NiMH battery module  
(2.6 V 2100 mAh; rechargeable)

**Operating time**  
Max. 65 hours  
(Depending on equipment, use, sensors and age of the battery)

**Housing**  
Material: rubberized plastic  
Dimensions: 68 x 100 x 39 mm (W x H x D)  
Weight: max. 275 g  
Protection class: IP67



**The device must not be charged or opened potentially explosive areas!**

**Charging contacts must always be kept clean!**  
Dirt can be removed with a damp cloth (clear water).

**Do not use solvents or cleaning agents!**

|                       |                      |                            |                      |
|-----------------------|----------------------|----------------------------|----------------------|
| ATEX certification    |                      |                            |                      |
| Microtector III G888C | Ⓔ I M2 Ex ia db I Mb | Ⓔ II 2G Ex ia db IIC T4 Gb | -20 °C ≤ Ta ≤ +50 °C |
| Microtector III G888M | Ⓔ I M1 Ex ia da I Ma | Ⓔ II 1G Ex ia da IIC T4 Ga | -20 °C ≤ Ta ≤ +40 °C |
|                       | Ⓔ I M2 Ex ia db I Mb | Ⓔ II 2G Ex ia db IIC T4 Gb | -20 °C ≤ Ta ≤ +50 °C |

|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Switch on  | Press the right button for approx. 1 second.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Self test  | After switching on, the visual and acoustic alarm, the displays of the sensors/gas types used incl. set alarm thresholds are tested.<br>If the inspection periods for the bump test, adjustment and annual maintenance are exceeded, an information and warning message appears.<br><b>Attention:</b> If the date for the respective control period is exceeded, the following message appears: "Bump test/maintenance overdue" or "Recalibration needed". Press the middle button <b>NEXT</b> to acknowledge the message and have the device tested or checked at the next opportunity. |
| Switch off | Press the right button for approx. 5 seconds. Release the button again after the end of the countdown (the display only shows "Switch off").                                                                                                                                                                                                                                                                                                                                                                                                                                             |



| Alarm type                       | Sensors           | Alarm levels | Description                                                                                                                                                                |
|----------------------------------|-------------------|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Current value (CV)               | » Oxygen          | 3            | Are triggered immediately when the current gas concentration exceeds or falls below (O <sub>2</sub> ) a specified value. The current value alarms can be set individually. |
|                                  | » flammable gases | 3            |                                                                                                                                                                            |
|                                  | » toxic gases     | 2            |                                                                                                                                                                            |
| Short-term exposure value (STEL) | » toxic gases     | 1            | The short-term exposure value (STEL) shows the average value of the last 15 minutes.                                                                                       |
| Long-term exposure value (TWA)   | » toxic gases     | 1            | The long-term exposure value (TWA) monitors exposure over 8 hours.                                                                                                         |

|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rotating the display by 180°                         | Briefly press the left and right buttons simultaneously to rotate the display by 180°. This makes it easier to read the display when the device is worn on the body.                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Zoom display of STEL, TWA, current and maximum value | To view individual values in the zoom display, briefly press the right button <b>⏏</b> . By briefly pressing the right button several times, all sensors and the battery charge status are displayed in succession. By pressing and holding the right button <b>⏏</b> in the zoom display, you can switch to the detailed view to additionally display the maximum, short-term and long-term values.                                                                                                                                                                                                                           |
| Display of PEAK value<br>» activate                  | In PEAK mode, maximum values (O <sub>2</sub> = minimum value) are permanently displayed. Pressing the left button <b>⏏</b> activates PEAK mode. The PEAK symbol <b>⚠</b> appears in the display. In the zoom display, the PEAK value is then shown in the upper left corner instead of the max. value (measured since PEAK was activated).                                                                                                                                                                                                                                                                                     |
| » reset                                              | If <b>⏏</b> is pressed in PEAK mode or in the zoom display, the PEAK memory is reset to the current gas concentration.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| » deactivate                                         | Pressing <b>⏏</b> again deactivates PEAK mode.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Flashlight or manual alarm                           | Pressing and holding the left button <b>⏏</b> activates one of two possible modes: the LED flashlight or the manual alarm. The function is selected in advance in the system options menu of the service menu.<br>LED flashlight: Press the left button for 3 seconds = on. Press the left button briefly = off.<br>Manual alarm: Press the left button for 3 seconds to activate the alarm.<br>The question "Are you OK?" appears. Pressing the left button <b>⏏</b> holds the alarm. Pressing the right button <b>YES</b> ends the alarm. The query can be opened again at any time by pressing the middle button <b>⏏</b> . |
| Main menu                                            | Pressing and holding the middle button <b>⏏</b> opens the main menu. Here, program parameters can be set. There are various submenus to choose from in the main menu:<br>» Loc (= selection of the operation location)<br>» User (= selection of employee)<br>» AutoCal (= zero point adjustment with ambient air (AIR) or test gas (GAS))<br>» Service menu (= parameter settings)<br>» Sensor-Overview (= overview of existing sensors)<br>» System-Information (= type, serial number, firmware version, radio setting)<br>The functions of the buttons are explained by information in the display above them.             |
| Access code                                          | Some menu items are only accessible via an access code. It prevents important functions from being changed accidentally or by unauthorised persons. There is no alarm in service mode.<br><br>For further information on the setting options, please refer to the operations manual.                                                                                                                                                                                                                                                                                                                                           |