MICRO IV

Quick Reference Guide

Measurement method
Electrochemical measurement cell (EMC)

Sample gas supply
Diffusion or pump

Environmental conditions (operation)
Temperature: -4 to +131 (+113) °F / -20 to +55 (+45) °C
Humidity: 5 to 95 % RH
Air pressure: 80 to 120 kPa

Operating time: Up to 6 months

Battery type
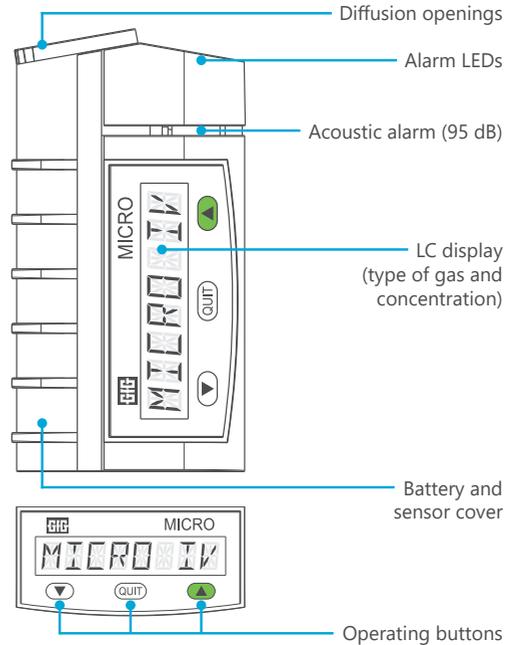» DURACELL MN1500 LR6 AA
» Energizer AA LR6

Housing
Dimensions: 1.85 x 3.5 x 1 in /
                 47 x 88 x 25 mm (WxHxD)
Weight: 3 oz / 84 g
Protection class: IP54

Diffusion openings

Alarm LEDs

Acoustic alarm (95 dB)

LC display
(type of gas and
concentration)

Battery and
sensor cover

Operating buttons

UL certification

Micro IV	c-UL-us	Class I, Division 1, Groups A, B, C, and D	Temperature Code T3C

Switching on the device	The device is switched on by inserting the battery or briefly pressing the ▲ button.
Self-test / warm-up phase	The device will automatically perform a self-test and battery check after being switched on. It will then display the battery charge status `100 bAT`. The warm-up phase is accompanied by a countdown `60 SEC`.
Measuring mode	After performing the self-test, the MICRO IV will enter measuring mode. The LC display will then alternate between displaying the type of gas and its concentration `0 CO 0 PPM`
Switching off the device	The device is switched off by holding down the ▲ button.
Alarm	If the alarm thresholds are exceeded, the device will trigger an alternating acoustic and visual alarm. The alarms are self-acknowledging.

	Alarm 1	Alarm 2	Alarm 3
Signal sequence	2x 🔊 2x 💡, 2x 🔊 2x 💡, ...	4x 🔊 4x 💡, 4x 🔊 4x 💡, ...	8x 🔊 8x 💡, 8x 🔊 8x 💡, ...
Display	`10 A1`	`20 A2`	`100 A3`

Battery alarm	The device will alert you when there are only 15 minutes of operating time or less than 5% battery capacity remaining.
Signal sequence	2x 🔊, 6 sec. pause, 2x 🔊, 6 sec. pause, ...
Display	`5 bAT`

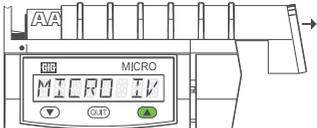| Button functions	
(up arrow, green)	Switching the device on: **Briefly press button** Switching the device off: **Hold down button** Additional functions while in operation To display averages and highest values: **Briefly press button** » Display for TOX sensors: first OEL, then short-term value, then long-term value » Display for OX sensors: first MIN, then MAX **Press the button again** to select the next value. Each value will be displayed for five seconds.
(QUIT)	During active alarm (if allowed as per configuration settings): Deactivate the alarm. During MIN / MAX display: Delete the displayed value.
(down arrow)	Device test / display of battery charge status: **Briefly press button** The device test includes the following functions: » Display test (all segments will be turned on for approx. 2 seconds) » LED test (both LEDs are lit consecutively) » Buzzer test (buzzer is activated for approx. 2 seconds) » Battery capacity (The device is turned off at low capacity) Displaying the date: **Hold down button** Displaying the time: **Repeated pressing during date display**

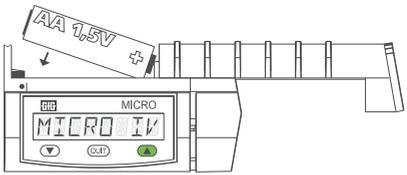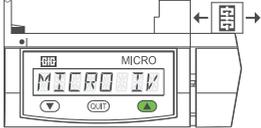|		
Opening the cover plate	Glide the battery and sensor cover to the right. **Attention: Do not open in Ex zones!**	
Replacing the battery	Insert new battery (Type AA). **Attention: Only use GfG approved battery types!** When inserting a new battery, always verify that the poles are correctly aligned (insert positive pole first). A self-test and a battery check will then be performed automatically.	
Replacing the sensor (remove battery first)	Detach the sensor as shown. Any wrong sensors will be identified by the following visual error message:	

Signal sequence	
Display	SENS ERR

Type of gas	H₂	O₂	CO	H₂S	NO	NH₃	HCN	HCl	C₂H₄O (ETO)	ClO₂	COCl₂	PH₃	SiH₄	HF	Cl₂	O₃	NO₂	SO₂
Measuring range	4.0 % Vol.	25.0 % Vol.	All ppm	All ppm	100 ppm	200 ppm	50 ppm	30 ppm	20 ppm	2.0 ppm	2.0 ppm	10.0 ppm	20 ppm	10.0 ppm	10.0 ppm	1.0 ppm	50 ppm	10.0 ppm
Alarm A1	0.2	19.5	35	10	25	20	5	5	5	0.1	0.1	0.3	5	1.0	0.5	0.1	3	2.0
Alarm A2	0.4	17.0	200	15	50	40	10	10	10	0.2	0.2	0.4	10	2.0	1.0	0.2	5	5.0
Alarm A3	0.6	23.5	300	100	100	200	50	30	20	1.0	1.0	1.0	20	10.0	10.0	1.0	10	10.0
Sample gas	2.0	20.9	200	20	50	100	20	10	10	1.0	1.0	5.0	10	10.0	10.0	1.0	10	10.0

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