MICRO IV

Short-form instructions

Firmware Version 2.14 2006/09/08 180-000.57 OM Short G223.doc

Ex-Ox-Tox Gasdetectie
Westerdreef 5V
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Diffusion inlet

Battery and sensor cover

Detection principle
Electrochemical sensor (EC)

Gas supply
Diffusion or pump (optional)

Climate conditions
-20...+55(45)°C / 5 ...95%r.h./ 700...1300hPa

Operational time
up to 9 months

Battery type:
Duracell Procell MN 1500 LR6 AA

Weight: 84 g

Dimensions: 47 x 88 x 25 mm

Protection: IP 56

Approval:
☒ II 2G EEx ib IIC T3 (Ta –20 ..+55°C)
☒ II 2G EEx ib IIC T4 (Ta –20 ..+45°C)

Alarm LEDs

Audible alarm (95 dB)

Display (for gas & concentration)

Turn on
Push long: Turn off
Short: Reading average and peak values, push again shortly to go on (for TOX: 1. MAX, 2. STEL, 3. TWA; for OX: 1. MIN, 2. MAX).

QUIT
With alarm: Reset
With reading MIN/MAX: Clear value

▼ **Short: Start of test function (display test, LED test, buzzer test, battery capacity)**
Long: Check of time and date

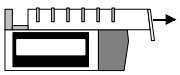
Gas	H_2	O_2	CO	H_2S	NO	NH_3	HCN	HCl	C_2H_4O	ClO_2	$COCl_2$	PH_3	SiH_4	THT	Cl_2	O_3	NO_2	SO_2
Range	4.0	25	300	100	100	200	50	30	20	2	1	10	20	100	10	1	30	10
	Vol. %	Vol.%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	mg/m^3	ppm	ppm	ppm	ppm
Alarm A_1	0.2	19.0	30	10	25	50	10	5	2	0.1	0.1	0.3	5	25	0.5	0.1	5	2
Alarm A_2	0.4	17.0	60	20	50	100	20	10	4	0.2	0.2	0.4	10	50	1	0.2	10	4
Alarm A_3	0.6	23.0	300	100	100	200	50	30	20	1	1	10	20	100	10	1	30	10
Test gas	1	20.9	200	50	100	100	50	10	20	1	1	5	20	37	5	0.7	20	10

Other detection ranges on request

Turn On/Off	Turn the detector on by inserting a battery or by pushing . Self test and battery check are effected automatically. The battery capacity is indicated in %. 100 bAT The warm-up time is accompanied by a countdown in the display. 60 SEC Once the self test is completed, the MICRO IV turns to detection mode. The LCD display indicates gas and concentration alternately. 0 CO 0 ppm
Alarm	Exceeded alarm thresholds trigger an alternating audible and visual alarm. The alarms are self-resetting.
Alarm 1	2 x 2 x 2 x 2 x ... 10 AL1
Alarm 2	4 x 4 x 4 x 4 x ... 20 AL2
Alarm 3	8 x 8 x 8 x 8 x ... 100 AL3
Battery alarm	The detector gives a warning with a remaining operation time of 15 minutes. 5 bAT Remaining battery capacity 5%. 2 x 6 seconds. Pause 2 x 6 seconds. Pause ...

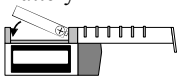
Key	Function
	With detector turned off: Push short = **Turn on** Push long = **Turn off** **In operation** Push short = **Indication of average and peak values** Reading with TOX sensors: TLV, then STEL, then TWA. Reading with OX sensors: MIN, then MAX. Push the key again for going to the next reading. The readout is shown for approx. 5 seconds.
QUIT	With active alarm, if allowed acc. to configuration: **Alarm reset**. During indication of MIN, MAX the displayed **value can be cleared**.
▼	Push short: **Test function** of the detector is started, battery capacity is shown in the display. The test function includes: ○ Display test (activating all digits for approx. 2 seconds) ○ LED test (both LEDs are activated shortly one after the other) ○ Buzzer test (the buzzer is turned on for approx. 2 seconds) ○ Display of battery capacity. Should the capacity be too low, the detector is being turned off. Push long: **Check of time and date**. The date is shown first, then the time by pushing the key again.

Replacement of Battery and Sensor (only in safe areas)



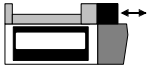
For replacement slide the battery/sensor cover upwards and remove it.

Battery



Inserting a new battery (type Mignon AA) starts the self test and the battery check. For Ex-approval make sure that you use only the approved type of battery. Watch out for the correct polarity (plus pole should be inserted first).

Sensor



Attention! Remove the battery before replacing the sensor. Only use a sensor which corresponds with the marking of your MICRO IV. Otherwise the LEDs will give a fault signal: SENS.ERR ...