

# Technical specifications: G450



<b>Measuring principle</b>	Electrochemical (EC): for toxic gases and oxygen Catalytic combustion (CC): for flammable gases and vapors (up to 100%LEL)																								
<b>Measuring ranges</b>	sensor dependent																								
<b>Response time</b>	sensor dependent																								
<b>Expected average life of the sensor</b>	sensor dependent																								
<b>Measuring gas supply</b>	Diffusion with flow velocity of 0...6 m/s or pump by means of attachable electrical sampling pump G400-MP2																								
<b>Display</b>	illuminated LCD full graphics display, automatic size setting for optimum reading, displays the battery capacity, gas concentration as current value and peak value																								
<b>Alerting</b>	depending on the gas type 3 or 2 momentary value and 2 exposure level alarms, battery alarm with visual and acoustical signaling as well as display on the screen, color of the display depending on the alarm state (orange/red). Horn: 103 dB(A) (can be reduced to 90 dB(A))																								
<b>Zero point and sensitivity adjustment</b>	manual or automatic with an adjustment program, if necessary, test gas supply via the "SMART CAP" or the „SMART CHARGER CAP" with 0.5...0.6slpm																								
<b>Power supply</b>	1. NiMH battery module A21 (colour: black), 2100mAh rechargeable 2. NiMH battery module F25 (colour: black), 2500mAh rechargeable Im=600mA (max. charging current) Um=6V DC (max. voltage) <b>or</b> 3. Alkaline battery module (colour grey), non-rechargeable with 2x Mignon 1,5V Type: DURACELL PROCELL MN1500 LR6 AA or INDUSTRIAL BY DURACELL ID1500 AA (LR6)																								
<b>Operating time (*1)</b>	<table border="0"> <tr> <td>NiMH-II A21:</td> <td>approx. 13h (EC+CC);</td> <td>approx. 25h (EC+CC<sub>CH4</sub>);</td> <td>approx. 120h (EC)</td> </tr> <tr> <td>NiMH F25:</td> <td>approx. 15h (EC+CC);</td> <td>approx. 30h (EC+CC<sub>CH4</sub>);</td> <td>approx. 130h (EC)</td> </tr> <tr> <td>Alkaline:</td> <td>approx. 14h (EC+CC);</td> <td>approx. 25h (EC+CC<sub>CH4</sub>);</td> <td>approx. 170h (EC)</td> </tr> </table>	NiMH-II A21:	approx. 13h (EC+CC);	approx. 25h (EC+CC <sub>CH4</sub> );	approx. 120h (EC)	NiMH F25:	approx. 15h (EC+CC);	approx. 30h (EC+CC <sub>CH4</sub> );	approx. 130h (EC)	Alkaline:	approx. 14h (EC+CC);	approx. 25h (EC+CC <sub>CH4</sub> );	approx. 170h (EC)												
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to (\*1): The service life is indicated for new battery modules at operating temperatures of +20°C. It will be reduced by pressing buttons (display lighting & lamp) and by gas alarms. It is reduced with the age of the battery module, with the number of the charging / discharging cycles, by longer storage of the gas measurement device in the charging tray and the lazy battery effect.  
CC<sub>CH4</sub>=with energy-saving operation at measuring range 0-100%LEL CH<sub>4</sub>