## Technical specifications: G999C / G999M / G999E / G999P

Type designations	G999C(with slot for a catalytic combustion sensor CC)G999M(with slot for a catalytic combustion sensor CC)G999E(with slot for a fourth electrochemical sensor EC)G999P(with slot for a photoionization sensor PID)
Measuring principle	Electrochemical (EC):for toxic gases and oxygenPhotoionization (PID):for toxic flammable gases and vaporsCatalytic combustion (CC):for flammable gases and vapors (up to 100%LEL)Infrared (IR):for flammable gases and vapors and carbon dioxide
Measuring ranges	sensor dependent
Response time	sensor dependent
Expected average life of the sensor	sensor dependent
Measuring gas supply	via the diffusion opening while the pump is switched off or via the suction opening during the pump operation (sensor cover closed)
Pump capacity	0,50,6slpm @0kPa / 0,30slpm @-4kPa / 0,0slpm@-10kPa max. 100 m hose length (depending on the measuring gas and hose)
Display	illuminated LCD full graphics display, automatic size setting for optimum reading, displays the battery capacity, gas concentration as current value and peak value
Alerting	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))
Zero point and sensitivity adjustment	manual or automatic with an adjustment program, if necessary, test gas supply via the "SMART CAP" with 0.50.6slpm
Radio	optional 868MHz for EU; range approx. 700 m (free field) optional 915MHz for USA; range approx. 300 m (free field)
Power supply	NiMH battery module; 5,2V 2100mAh; rechargeable
<b>Operating time (*1)</b> without radio: with radio:	approx. 26h (EC+CC_{ps}+IR)approx. 18h (EC+CC+IR)approx. 11h (EC+CC+IR+Pmp)approx. 42h (EC+CC_{ps})approx. 25h (EC+CC)approx. 13h (EC+CC+Pmp)approx. 52h (EC+PID)approx. 30h (EC+PID+IR)approx. 14h (EC+PID+IR+Pmp)approx. 130h (EC)approx. 47h (EC+IR)approx. 17h (EC+IR+Pmp)approx. 20h (EC+CC_{ps}+IR)approx. 15h (EC+CC+IR)approx. 10h (EC+CC+IR+Pmp)approx. 28h (EC+CC_{ps})approx. 19h (EC+CC)approx. 11h (EC+CC+Pmp)approx. 33h (EC+PID)approx. 22h (EC+PID+IR)approx. 12h (EC+PID+IR+Pmp)approx. 52h (EC)approx. 30h (EC+IR)approx. 14h (EC+IR+Pmp)
Climatic conditions for operation: for storage:	-20+50°C   595%r.h.   70130kPa -25+55°C   595%r.h.   70130kPa (recommended 0+30°C)
Housing Material: Dimensions: Weight: Protection class:	rubberized polycarbonate 68 x 136 x 39 mm (W x H x D) up to 395 g (depending on sensor configuration) IP67





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), by using the pump 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.  $CC_{ps}$  = Catalytic sensor with activated PowerSave mode if a reading of 0%LEL is detected. This energy saving mode can only be activated for certain measuring ranges.

