

9 October 2019

Product Comparison: MSA Altair 4XR vs. GfG G888 and GfG G999 Multi-Sensor Gas Detectors

			
	MSA Altair 4XR	GfG G888	GfG G999
Size	112 X 76 X 35 mm	68 X 100 X 39 mm	68 X 136 X 39
Weight (depending on configuration)	228 g	250 – 275 g	350 - 395 g
Standard Warranty: Instrument	4-Year	Lifetime*	Lifetime*
Buttons	3	3	3
Maximum sensors	3	5	5
Measurement channels	Up to 4	Up to 7	Up to 7
Individual sensors for simultaneous CO and H2S	No: Only dual channel COSH)	Yes: Individual or dual channel COSH	Yes: Individual or dual channel COSH

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	MSA Altair 4XR	GfG G888	GfG G999
IP Rating	IP 67	IP 67	IP 67
Housing	Polycarbonate w rubberized boot	Polycarbonate w rubberized boot	Polycarbonate w rubberized boot
Operating temperature range (continuous)	- 20 to +50 °C	- 20 to +50 °C	- 20 to +50 °C
Operating temperature range (short term)	- 40 to +50 °C	- 40 to +50 °C	- 40 to +50 °C
Humidity	15-90% RH (non-condensing) continuous; 5 - 95% intermittent	5 - 95% RH (non-condensing) continuous	5 - 95% RH (non-condensing) continuous
Atmospheric pressure	800 mbar - 1200 mbar	800 mbar - 1200 mbar	800 mbar - 1200 mbar
Display			
Top-mounted display	No	Yes	Yes
Display Size	Large	Large	Large
Built-in zoom function for readings	No	Yes	Yes
Display changes color to indicate alarm	No	Yes	Yes
Built-in display back-light	Yes	Yes	Yes
Battery and charging options			
Rechargeable battery technology	Lithium polymer (Li ⁺ Ion)	Nickel Metal Hydride (NiMH)	Nickel Metal Hydride (NiMH)
Alkaline battery option	Yes	No	No
Charging time	4 hrs.	6 hrs. (from completely depleted)	8 hrs. (from completely depleted)
Charging cradle (110 - 240 VAC)	Optional	Optional	Standard
Charging via plug in adapter	Yes	No	No
Charging via calibration cap with USB cell phone power adapter	No	Yes	No

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Run time (for typical sensor configurations)			
CC LEL / lead-free O ₂ / dual channel COSH	24 hrs. (22 hrs. when Bluetooth® on)	23 hours	47 hours
CC LEL / lead-free O ₂ / CO / H ₂ S	NA	23 hours	47 hours
IR LEL / lead-free O ₂ / CO / H ₂ S / H ₂	NA	23 hours	47 hours
IR LEL / IR CO ₂ / lead-free O ₂ / CO / H ₂ S / H ₂	NA	23 hours	47 hours
IR LEL / IR CO ₂ / lead-free O ₂ / PID / COSH / H ₂	NA	NA	24-hour
IR LEL / IR CO ₂ / lead-free O ₂ / CO / H ₂ S / NO ₂	NA	23 hours	47 hours
Sensor warranty and expected life			
CC LEL	4-year (5 year expected)	3-year (5 year expected)	3-year (5 year expected)
Lead-free O ₂	4-year (5 year expected)	5-year	5-year
IR LEL / IR CO ₂	NA	3-year (5 year expected)	3-year (5 year expected)
Dual-channel CO/H ₂ S (COSH)	4-year (5 year expected)	3-year (5 year expected)	3-year (5 year expected)
CO	NA	3-year (5 year expected)	3-year (5 year expected)
H ₂ S	NA	3-year (5 year expected)	3-year (5 year expected)
NO ₂	4-year (only available as dual-channel CO/NO ₂ sensor)	3-year	3-year
SO ₂	4-year (only available as dual-channel H ₂ S/SO ₂ sensor)	2-year (3 year expected)	2-year (3 year expected)
PID	NA	NA	PID sensor: lifetime, PID lamp: 2 yr.
H ₂ , Cl ₂ , ClO ₂ , EtO, HCN, NO, PH ₃	NA	2-year	2-year
NH ₃ , HF, HCl, O ₃	NA	1-year (2-year expected)	1-year (2-year expected)

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	MSA Altair 4XR	GfG G888	GfG G999
Built-in flashlight LED	No	Yes	Yes
Docking Station	Yes	Yes	Yes
Alarms			
Audible alarm	95 dB @ 30 cm	103 dB @ 30 cm	103 dB @ 30 cm
Vibrating alarm	Yes	Yes	Yes
Red / green Bump / Cal status indicator	Yes	Yes	Yes
Data-logging			
On-board data storage	3,000 intervals	30,000 intervals	30,000 intervals
Motorized remote sampling pump			
Optional internal remote sampling pump	No	No	Yes
Optional attachable remote sampling pump	Yes	No	No
Operable in diffusion while pump installed	No	NA	Yes
Pump draw	45 m	NA	100 m
Real-time wireless communication			
Wireless communication method	Bluetooth®	License free 915 MHz ISM RF	License free 915 MHz ISM RF
Maximum direct communication distance	10 m	300 m	300 m

* Lifetime warranty on instrument, electronics and non-consumed components. Batteries and components that are consumed in normal operation are warranted for two years.