

Manufacturer's Declaration

10000218060/01



Use of MSA gas detector type S5000 for the measurement of flammable gases and vapours also in conjunction with MSA control Systems SUPREMA, 9010/9020/SIL and GasGard XL

We, **MSA Europe GmbH, Schlüsselstrasse 12, 8645 Rapperswil-Jona, CH - Switzerland** hereby declare that the gas detector S5000 certified by FM Approvals (FM21ATEX0070X and FM21ATEX0072) with **CAT Bead Sensor** as an explosion protected electrical apparatus is able to measure following listed gases and vapours in the **measuring range of 0-20 %LEL** in air

Gas/Vapour	CAS No.	Display correlates to		t _{50/s}	t _{90/s}
4-Methyl-2-pentane** Methyl isobutyl ketone	108-10-1	13,0 % LEL	Propane 0,17 Vol%	≤ 10 (≤ 40)**	≤ 25 (≤ 65)**
Ethanol**	64-17-5	8,8 % LEL	Propane 0,17 Vol%	≤ 9 (≤ 29)**	≤ 21 (≤ 44)**
Ethylene	74-85-1	8,5 % LEL	Propane 0,17 Vol%	≤ 7	≤ 16
JP-8***		13 % LEL	Propane 0,10 Vol%	≤ 26	≤ 176
Methane	74-82-8	10 % LEL	Methane 0,44 Vol%	≤ 6	≤ 17
Methylcyclopentane	96-37-7	12,2 %LEL	Propane 0,17 Vol%	≤ 11	≤ 25
n-Butanol	71-36-3	8,7 % UEG	Propane 0,1 Vol%	≤ 11	≤ 24
n-Hexane	110-54-3	12,6 % LEL	Propane 0,17 Vol%	≤ 15	≤ 29
n-Nonane	111-84-2	17,3 % LEL	Propane 0,17 Vol%	≤ 21	≤ 51
Propane	74-98-6	10 % LEL	Propane 0,17 Vol%	≤ 7	≤ 13
Hydrogen	1333-74-0	6,2 % LEL	Propane 0,17 Vol%	≤ 6	≤ 20
Methyl tert-butyl ether	1634-04-4	14,7 % LEL	Propane 0,17 Vol%	≤ 8	≤ 22
Diisopropyl ether	108-20-3	13,6 % LEL	Propane 0,17 Vol%	≤ 8	≤ 19

For use also in conjunction with following certified Control systems

Control System	EU Type Examination certificate	Notified Body
SUPREMA	DMT 03 ATEX G 003 X	DEKRA EXAM GmbH
9010/9020 SIL	BVS 16 ATEX G 001	DEKRA EXAM GmbH
GasGard XL	FTZU 07 ATEX 0066 X	FTZU s.p.

The calibration/ adjustment procedure must be carried out in accordance with the operating instructions.

The calibration of the gas detector S5000 must be carried out in accordance with EN 60079-29-2 or local requirements.

*In case of longer exposure of this above mentioned Gas/vapours, a calibration according to EN 60079-29-2 must be carried out.

** In case of using the Weather protection cap (PN 10395-1) the Sensor sensitivity and the response time (t_{50/s} and t_{90/s}) is out of standard. The alarm threshold for this substance should be set as low as possible

***The response time T90 is out of standard, the alarm threshold for this substance should be set as low as possible.

Berlin, 20.07.2023



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