

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 Sira (Sira 17 ATEX 1048 X Sira 17ATEX4052X) **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**	108-10-1	13,5 % LEL	Propane 0,17 Vol%	≤ 14 (≤ 40)**	≤ 32 (≤ 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

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 performance approval according to EN 60079-29-1 of the measure range 0-20% LEL is pending.

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

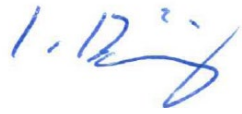
The calibration of the gas detector S5000 must be carried out in accordance with EN 60079-29-2 or local requirements.

*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, 19.04.2021



Ingmar Bönig
European Product Compliance Manager
MSA Technologies and Enterprise Services GmbH
Thiemannstrasse 1
12059 Berlin