

Crowcon Technical Note

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Subject: Gasman & Tetra 3 - Flammable sensor Correction Factors (Issue 3)



The tables on the following page show the variation in response of the 4-series pellistor flammable sensor, on exposure to a range of gases and vapours at the same %LEL concentration.

The figures are experimentally derived and expressed relative to the methane response (methane = 100).

Relative response data are shown in the table below, based on the LEL values stated in EN60079-20-1:2010.

IMPORTANT NOTE: The relative response data shown below does not form part of the product specification and is supplied for guidance only. For the most accurate measurements, an instrument should be calibrated using the gas under investigation.

PLEASE NOTE:

The data in the following table is specific to the 4P75C & 4P75 sensors. The responses and correction factors listed must not be applied to other types of flammable sensor.

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“4P75C” Flammable Sensor (*standard version – with built-in filter*)

“4P75” Flammable Sensor (*unfiltered version*)

response to 100% LEL methane	EN60079-20-1:2010	Calibration Correction Factor - With respect to Methane	EN60079-20-1:2010	Calibration Correction Factor - With respect to Methane
	4P75C (Filtered)		4P75 (Unfiltered)	
methane	100	1.0	100	1.0
propane	59	1.7	61	1.6
n-butane	56	1.8	58	1.7
n-pentane	66	1.5	69	1.4
n-hexane	53	1.9	55	1.8
n-heptane	No Response		62	1.6
n-octane	No Response		33	3.0
methanol	No Response		95	1.1
ethanol	No Response		89	1.1
iso propyl alcohol	No Response		71	1.4
acetylene	94	1.1	94	1.1
carbon monoxide	130	0.8	123	0.8
acetone	No Response		74	1.4
methyl ethyl ketone	No Response		64	1.6
toluene	No Response		44	2.3
ethyl acetate	No Response		72	1.4
hydrogen	136	0.7	134	0.7
ammonia	164	0.6	159	0.6
-	59	1.7	60	1.7
unleaded petrol	No Response		68	1.5
ethylene	89	1.1	92	1.1
ethane	68	1.5	68	1.5
propylene	88	1.1	91	1.1

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