Honeywell

Midas[®] sensor cartridge specifications

Flammable Group (n-Butane) MIDAS-E-LEB



Gas Measured	n-Butane (n-C ₄ H ₁₀)		
Cartridge Part Number	MIDAS-E-LEB 2 year extended warranty		
Sensor Technology	Pellistor (catalytic bead)		
Measuring Range	0 – 100% LEL ¹		
Minimum Alarm 1 Set Point	9% LEL		
Repeatability	< ± 10% of measured value		
Linearity	< ± 10% of measured value		
Response Time t62.5	< 5 seconds		
Sensor Cartridge Life Expectancy	≥ 60 months under typical application conditions		
Operating Temperature	0°C to +40°C (32°F to 104°F)		
Effect of Temperature			
Zero Sensitivity	< ± 1% fsd < ± 3% fsd		
Operating Humidity(continuous) Effect of Humidity	20 – 90% RH		
Zero Sensitivity	< ± 1% fsd < ± 2% fsd		
Operating Pressure	90 - 110kPa		
Effect of Position	No effect in typical application		
Long Term Drift			
Zero Sensitivity	< ± 3% fsd / year < ± 3% fsd / year		

Cross Sensitivities

Each Midas[®] sensor is potentially cross sensitive to other gases and this may cause a gas reading when exposed to other gases than those originally designated. The table below presents typical readings that will be observed when a new sensor cartridge is exposed to the cross sensitive gas (or a mixture of gases containing the cross sensitive species).

Gas / Vapor	Chemical Formula	Concentration applied (ppm)	Reading (% LEL)
Ammonia	NH₃	10	0
Carbon Dioxide	CO ₂	10	0
Carbon Monoxide	CO	10	0
Chlorine	Cl ₂	10	0
Ethylene	C_2H_4	0.675%v	43
Hydrogen	H ₂	1%v	67
Hydrogen Chloride	HCI	10	0
Hydrogen Sulphide	H_2S	10	0
Iso Propanol	C ₃ H ₇ OH	0.5%v	31
Methane	CH ₄	1.25%v	59
Nitric Oxide	NO	10	0
Nitrogen Dioxide	NO ₃	10	0
Sulphur Dioxide	SO ₂	10	0

The sensor data listed is based on ideal test environment; observed performance may vary based on the actual monitoring system and the sampling conditions employed

n-Butane (n-C₄H₁₀)

n-Butane (n-C₄H₁₀)

+5°C to +25°C (+41°F to +77°F)

< 10 minutes

It is recommended that the calibration and bump test gas should be the same as measuring gas

Find out more

Calibration Gas

Warm Up Time

Storage Temperature

Challenge Gas (Bump Test)

www.honeywellanalytics.com Toll-free: 800.538.0363

Please Note:

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SS01500A_v1 11/18 © 2018 Honeywell International Inc.