Honeywell

Midas® SENSOR CARTRIDGE SPECIFICATIONS

Sulphur Dioxide (SO_2)
MIDAS-S-SO2, MIDAS-E-SO2

Gas Measured	Sulphur Dioxide (SO_2)
CARTRIDGE PART NUMBER	MIDAS-S-SO2 1 year standard warranty MIDAS-E-SO2 2 year extended warranty
SENSOR TECHNOLOGY	3 electrode electrochemical cell
MEASURING RANGE (PPM)	SO_2 0 – 8ppm
MINIMUM ALARM 1 SET POINT	1.00ppm
REPEATABILITY	< ± 2% of measured value
LINEARITY	< ± 10% of measured value
RESPONSE TIME $T_{62.5}$	< 5 seconds
SENSOR CARTRIDGE LIFE EXPECTANCY	≥ 24 months under typical application conditions
OPERATING TEMPERATURE EFFECT OF TEMPERATURE ZERO SENSITIVITY	0°C to +40°C (32°F to 104°F) < ± 0.003ppm / °C (0°C to 20°C) < ± 0.03ppm / °C (20°C to 40°C) < ± 0.4% of measured value / °C
OPERATING HUMIDITY (CONTINUOUS) EFFECT OF HUMIDITY ZERO SENSITIVITY	15 – 90% rH No effect < ± 1% of measured value / % rH
OPERATING PRESSURE	90 - 110 kPa
EFFECT OF POSITION	No effect in typical application
LONG TERM DRIFT ZERO SENSITIVITY	 TBA < ± 2% of measured value / year
CALIBRATION GAS	Sulphur Dioxide (SO_2)
CHALLENGE GAS (BUMP TEST)	Sulphur Dioxide (SO_2)
WARM UP TIME	< 10 minutes
STORAGE TEMPERATURE	+5°C to +25°C (+41°F to +77°F)

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

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 crosssensitive species).

GAS / VAPOR	CHEMICAL FORMULA	CONCENTRATION APPLIED (PPM)	READING (PPM HF)
Carbon Monoxide	CO	300 ppm	< 3
Hydrogen Sulphide	H_2S	15	0
Nitric Oxide	NO	35	0
Nitrogen Dioxide	NO_2	5	-5

Find out more
www.honeywellanalytics.com
Toll-free: 800.538.0363

Please Note:
While every effort has been made to ensure accuracy in this publication, no responsibility can be accepted for errors or omissions.
Data may change, as well as legislation, and you are strongly advised to obtain copies of the most recently issued regulations, standards, and guidelines.
This publication is not intended to form the basis of a contract.

SS01115AA_v2 8/17
© 2017 Honeywell Analytics