



S8

More than 30 years experience of research and development within the field of infrared gas sensing has brought us our smallest NDIR CO₂ sensor. The sensor has excellent performance such as high accuracy and low power consumption.

Defining attributes

- Low power consumption
- Miniature size
- Individually calibrated
- Maintenance free
- Long term stability

It comes in a few different variations, the residential variation intended for residential IAQ applications, a commercial variation for stricter compliances and a low power version for applications with power limitations.

Article number	004-0-0053
----------------	------------

Operating principle	Non-dispersive infrared (NDIR)
---------------------	--------------------------------

Measured gas	CO ₂
--------------	-----------------

Measurement range	400–10 000ppm
-------------------	---------------

Accuracy	±40 ppm ±3% of reading
----------	------------------------



Operating range RH	<85 % RH
--------------------	----------

Operation range °C	<50 °C
--------------------	--------

Warm-up time	<60s
--------------	------

Response time	≤30s
---------------	------

Power supply	4.5 - 5.25 V
--------------	--------------

Peak current	300 mA
--------------	--------

Average current	18mA
-----------------	------

Communication	Modbus protocol, UART
---------------	-----------------------

Outputs	Digital
---------	---------

Compliance	ANSI/ASHRAE 62.1-2022 RESET grade B WELL v2™
------------	--

Maintenance	Maintenance free
-------------	------------------

Life expectancy	>15 years
-----------------	-----------

Dimensions	33.9 x 19.8 x 8.7 mm (L x W x H)
------------	----------------------------------

Weight	8 g
--------	-----



Storage conditions -40–70 °C