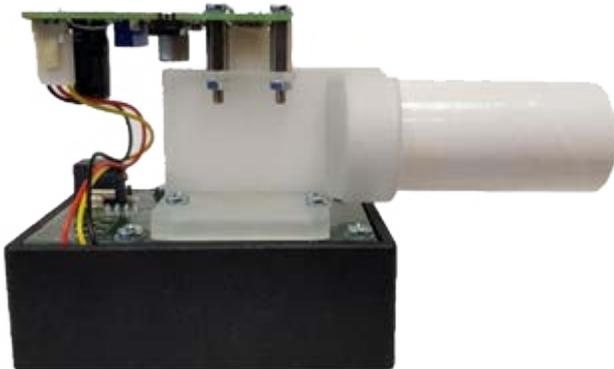


# KEMET, QGS, SMD CO<sub>2</sub> Gas Sensing Evaluation Kit, Infrared, I<sup>2</sup>C Communication Compatible, High Dynamic Range



## General Information

Series:	QGS
Type:	Gas Detection
Style:	Connector
Description:	Evaluation Kit
Kit Contains:	PCB with STM32F303K8T6 microcontroller, sensors USEQFSEA391180 and USEQGSSEAC82180, emitter drive PCB, with TO-39 IR emitter, 3D printed gas cell, breathing tubes, 9 VDC power supply, USB communications cable
REACH	SVHC (PZT – CAS 12626–81–2)
SCIP Number	bc4e3452–d0d0–4c97–93bd–778b4e41f2f2
Qualifications	REACH
RoHS:	With Exemptions

## Packaging Specifications

Packaging:	Cardboard Box
Packaging Quantity:	1
Weight:	300 g

## Specifications

Temperature Range:	–40/+85°C
Miscellaneous:	SMD CO <sub>2</sub> gas sensing evaluation kit, including 2 QGS sensors
Power Supply Voltage:	1.75 – 3.6 V
Current:	1 – 23 µA (Supply Current, Typical)
D*	2.5 x 10 <sup>8</sup> cm sqrt (Hz)/W
NEP:	2.7 x 10 <sup>-10</sup> W/sqrt (Hz)
Time Constant:	10 ms (10 – 20 Hz peak)
Field of View:	90 degrees
Element Size:	0.64 mm x 0.64 mm

For additional sources of information, please refer to <https://www.kemet.com/en/us/sensors/environmental-sensors.html>