

# KEMET, QGC, TO-39 CO<sub>2</sub> Gas Sensing Evaluation Kit, Infrared, Analog Output, Fast, Wide Operating Frequency Range



General Information	
Series:	QGC
Type:	Gas Detection
Style:	Connector
Description:	Evaluation Kit
Kit Contains:	PCB with C8051F350 microcontroller and ADC, dual channel CO <sub>2</sub> sensor USEQGCDAC82L00, emitter drive PCB, with TO-39 IR emitter, reflector and sapphire window, brass gas cell, 9 VDC power supply, USB communications cable
REACH	SVHC (PZT - CAS 12626-81-2)
SCIP Number	9074c9fd-06c9-4bc8-bb2f-04f9793401ba
Qualifications	REACH
RoHS:	With Exemptions

Packaging Specifications	
Packaging:	Cardboard Box
Packaging Quantity:	1
Weight:	550 g

Specifications	
Temperature Range:	-40/+85°C
Miscellaneous:	TO-39 CO <sub>2</sub> gas sensing evaluation kit, including 1 QGC sensor
Power Supply Voltage:	2.7 - 8.0 V
Sensor Type:	Dual
Noise:	Mean 70 μV sqrt (Hz)
D*:	3.5 x 10 <sup>8</sup> cm sqrt (Hz)/W
Time Constant:	12 ms
Element Size:	1,000 μm x 1,000 μm
Filter Aperture:	2.6 mm x 2.6 mm
Responsivity:	150,000 V/W

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