

Ozone 3 Click



PID: MIKROE-4654

Ozone 3 Click is a compact add-on board suitable for ozone concentration detection and monitoring. This board features the 110-407, a high-performance ultra-thin electrochemical gas sensor from SPEC Sensors supported by the LMP91000, a high-precision integrated analog front-end IC (AFE) ideal for this sensing application. It provides the reference voltage required by the sensor and offers a choice between the analog output from the AFE IC buffered with the low noise Op-Amp and digital output from the 12-bit SAR A/D converter. This Click board™ represents an ideal choice for health, environmental, industrial, and residential monitoring.

Ozone 3 Click is supported by a [mikroSDK](#) compliant library, which includes functions that simplify software development. This [Click board™](#) comes as a fully tested product, ready to be used on a system equipped with the [mikroBUS™](#) socket.

Mikroe produces entire development toolchains for all major microcontroller architectures.

Committed to excellency, we are dedicated to helping engineers bring the project development up to speed and achieve outstanding results.



ISO 27001: 2013 certification of informational security management system.
ISO 14001: 2015 certification of environmental management system.
OHSAS 18001: 2008 certification of occupational health and safety management system.



ISO 9001: 2015 certification of quality management system (QMS).

Specifications

Type	Gas,Ozone
Applications	Can be used for ozone concentration detection and monitoring
On-board modules	3SP-O3-20 - high-performance ultra-thin electrochemical gas sensor that can sense ozone concentration up to 20ppm from SPEC Sensors LMP91000 - configurable AFE IC for low-power chemical sensing applications from Texas Instruments
Key Features	Low power consumption, high performance, long life, fast response, high sensitivity, and more.
Interface	Analog,I2C
ClickID	No
Compatibility	mikroBUS
Click board size	L (57.15 x 25.4 mm)
Input Voltage	3.3V or 5V

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click boards™](#)

Downloads

[Ozone 3 click 2D and 3D files](#)

[OPA344 datasheet](#)

[MCP3221 datasheet](#)

[LMP91000 datasheet](#)

[3SP-O3-20 datasheet](#)

[Ozone 3 click example on Libstock](#)

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