

- Sensor for O<sub>2</sub> concentration
- Non consumptive
- Ultra fast, reliable and accurate
- One point calibration with ambient air
- Low cost & Long life time
- Low power consumption
- Easy integration into your products

## ● APPLICATIONS

The ACE-O2 is a polymer sensor used to measure oxygen concentration in side and main stream. This is ideal for devices and applications like:

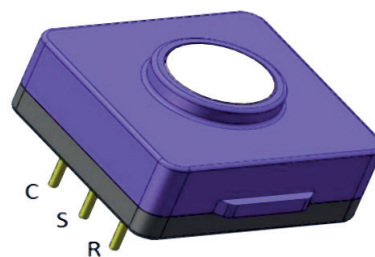
- Cardiorespiratory applications (cpet/cpx/stress test)
- cardiology, pneumology, occupational and sports medicine
- monitoring and ICU
- indirect calorimetry
- wellness and lifestyle
- metabolic measurements
- from neonatal to sports athletes

## ● COMPETITIVE EDGE

- high accuracy, reliability, reproducibility
- easy to integrate
- short warm up time
- ultra fast response time
- non consumptive
- sensor lifetime >5 years
- RoHS conform



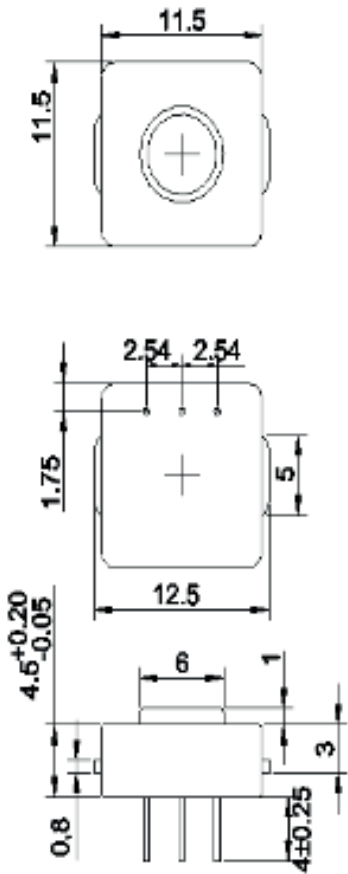
ACE-O2® (Side stream with electronics)



ACE-O2® (mainstream)

All information is subject to change.

● DIMENSIONS



All dimensions are in mm.  
All tolerances are in 0,10mm  
unless otherwise stated.

● CHARACTERISTICS

Model: ACE-02®		
Measuring		O <sub>2</sub> sidestream
Properties	Measurement principle	amperometric, polymer
	Range of measurement	0-80 Vol%
	Precision, absolute	<0.1Vol%
	Resolution	<0.01%
	Stability	<0.1 Vol% / 24h
	Temperature range	-30°C - +50°C
	Response Time T <sub>10-90</sub>	<100ms
	Humidity range	10-95% (non-condensing)
Operation	Lifetime	> 3 years
	Warm up time (preconditioned)	approx. 30s
Peripherals	Sensor weight approx.	0,45 g
	Power Consumption	6,5 mW (5V)
	Signal Output @ 21% O <sub>2</sub>	ca. 50 µA

● ORDERING ACE-02®

Contact information	A bluetooth ACE-02 Evaluation Kit including documentation is available to support your projects.	
	Information	
	Detail	specification / manual
	Phone	+49(0)911-477527-0
	Fax	+49(0)911-477527-99
	Mail	info@ACEOS.com
	Internet	www.ACEOS.com

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