

OXITEC[®] 500E
EXTRACTIVE O₂-ANALYZER

**TOUGH, RELIABLE
AND ACCURATE**

DEVELOPED AND
MANUFACTURED
IN GERMANY



OXITEC® 500E GENERAL SYSTEM DESCRIPTION

The **OXITEC** 500E 19" rack analyzer is designed for the continuous O₂ measurement for example in CEM cabinets.

When supplied complete with a sampling and conditioning system **OXITEC** 500E is able to measure the O₂ content in wet or dry flue gas, wet or dry sample gas or steam down to less than 1 ppm O₂.

The extremely high accuracy together with the extremely low O₂ detection limit makes the **OXITEC** 500E the very first choice for emission measurement installation, inert gas monitoring, measurement of oxygen traces e.g. in N₂ or water vapour, air fractionation, quality monitoring during food production by means of oxygen trace measurement in CO₂ and many others applications.

The **OXITEC** 500E oxygen analyzer is based on the same ZrO₂ oxygen measuring technology as our well known long term approved **OXITEC** 5000 In-Situ oxygen analyzer and incorporates a ZrO₂ oxygen sensor, a microprocessor unit, a „user friendly“ graphical user interface, a 0/4-20mA analogue output for the O₂ measurement and several digital I/O-interfaces.

FASTEST RESPONSE TIME

Here a 2-point calibration is taking place showing the actual oxygen content here 4.72% O₂. The fast reaction to process gas after calibration is evident and this speed of measurement is the same when the sensor reacts to changes of the oxygen concentration in flue. An immediate regulation of the combustion process is thus possible.



... and more interfaces available.

OXITEC® 500E TECHNICAL DATA

ANALOGUE OUTPUT

FOR	O ₂ measured value
TYPE	0/4 to 20 mA, active sourcing, DC-isolated

DIGITAL OUTPUTS

FOR	Error Status, Maintenance, Measuring Range, Measuring Limit 1, Measuring Limit 2
TYPE	Relay Contact
ELECTRICAL DATA	Max. 24V AC/DC, 1A, resistive load

POWER SUPPLY

MAINS VOLTAGE	115 VAC / 230 VAC +/- 10%
MAINS FREQUENCY	50 Hz / 60 Hz
POWER CONSUMPTION	250 VA max.

INSTRUMENT AIR SUPPLY (INSTRUMENT AIR VERSION ONLY)

CONNECTION	Push-in fitting 6mm tubes
QUALITY	ISO 8573-1 class 2
PRESSURE	4 to 10 bar
CONSUMPTION	40 - 60 l/h

SAMPLE GAS SUPPLY/CALIBRATION SUPPLY

CONNECTION	Swagelok fitting for 6/10mm tubes
TEMPERATURE	+120°C / +248°F to +300°C / +572°F (wet sample gas) 0°C / +32°F to +300°C / 572°F (dry sample or calibration gas)
FLOW RATE	40 - 60 l/h +/- 5%
SAMPLE GAS	No combustibles
CALIBRATION GAS 1	20.95% O ₂ +/- 2%, balance: N ₂ or instrument air
CALIBRATION GAS 2	2.1% O ₂ +/-2%, balance: N ₂

OPTIONS

+ Instrument air supply or internal pump for ref. air supply + Fieldbus interface: Fieldbus Foundation or HART + Communication interface: RS232 or RS485

AMBIENT CONDITION

OPERATING TEMP	-20°C / -4°F to +55°C / +131°F (instrument air for reference air) -20°C / -4°F to +40°C / +104°F (internal pump for reference air)
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APPROVALS

EC-CONFORMITY	89/336/EEC
EMC TESTED	in accordance with EN50082-2, EN55011 Cl.B
TÜV APPROVAL	in accordance with 13./17. BImSchV*

DIGITAL INPUT

FOR	Measuring Range Selection
TYPE	Optocoupler Input, DC-isolated
ELECTRICAL DATA	0V / 24V DC

ENCLOSURE

TYPE	19" 4U
DIMENSION	177 x 483 x 400mm (incl. fittings and terminals)
PROTECTION CLASS	IP20
WEIGHT	Approx 12 kg

MEASURING

MEASURING PRINCIPLE	ZrO ₂ measuring cell
DETECTION LIMIT	< 1 ppm
MEASURING RANGES	2, user configurable 0.00% (min.) bis 100.00% (max.) O ₂ or ppm measuring ranges
ACCURACY	+/- 0.2% of readings
RESPONSE TIME	< 1 second

* TÜV approved in combination with a multi component analyzer GASMET CX4000 or comparable .

OXITEC® 500E

SAFE AND CLEAN COMBUSTION

COMPANY

ENOTEC has provided gas sensing solutions since 1980, producing products with a high degree of accuracy, quality and durability - Made in Germany.

Our flexibility allows us to quickly develop solutions individually designed to meet your problems.

On request, we also offer after delivery service concepts - the world over.

SYSTEM FEATURES

- > Highest accuracy
- > Overview of calibration history
- > Sensor life expectancy on display
- > Gas tight sensor construction
- > Self-monitoring
- > Unrivaled long service life

CONTACT

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ENOTEC has three subsidiaries:
ENOTEC USA, ENOTEC ASIA, ENOTEC UK and over 50 distributors world wide...

The ENOTEC product configurator: Configure your analyzer in 5 minutes.



Watch the ENOTEC product videos on our YOUTUBE channel
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