OXITEC® 5000 ECONOMY Oxygen Analyser System



Oxygen Analyser Package for Small to Medium Size Boilers

High Quality Low Cost Simple Operation **Easy Installation Factory Calibrated** 24 Month Warranty

Measuring Principle

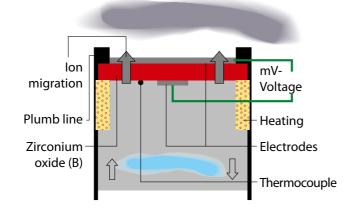
OXITEC ``5000 ECONOMY oxygen analysers measure the oxygen content,using a heated zir conium oxide measuring cell (B), directly in the flue gaschannel (InSitu).

The process gas (A) diffuses through a filter element and "flows" over the measuring gas side of the measuring cell. The reference gas (air) with itsknownandconstantO₂-concentrationcontactsthecellfromtheinside(C). At constant temperature a voltage is generated between the two surfaces $of the cell, which is a direct measure for the oxygen concentration in the {\it the cell}, which is a direct measure for the oxygen concentration in the {\it the cell}, which is a direct measure for the oxygen concentration in the {\it the cell}, {\it the cell$ process gas.

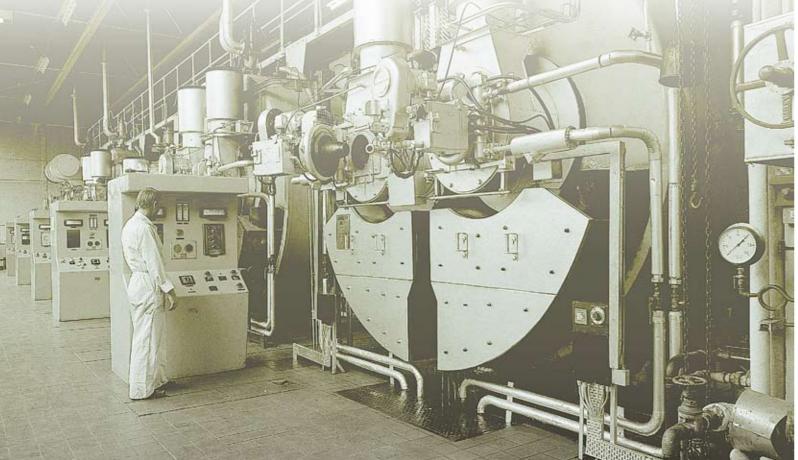
Technical Description

The OXITEC® 5000 ECONOMY oxygen analyser package comprises a probe, interconnecting cable and the microprocessor electronic unit andwas developed for use in small to medium size boilers for commercial andindustrial applications.

 $All components and materials used have been well proven from {\tt ENOTEC} is$ manyyearsexperienceinlargeboilerapplications, such as in power stations, incinerator plants etc. resulting in long working life and low maintenance. ENOTEC's gold brazing technology ensures agas-tight sensor which with its



 $large cell surface are a contributes to the increased O_{a}me a suring accuracy and \\$ fast response from the OXITEC 5000 ECONOMY oxygen analyser package. Themicroprocessorelectronics is contained in a rugged sheet metal housing for direct mounting in the boiler house. The backlit graphic display (LCD) has clear text with keypad selectable language options, providingeasy operation for endusers in other countries. In stall at ion time is reducedto a minimum with electrical cable connections simplified by use of quickdisconnect plug & socket.



OXITEC® 5000 ECONOMY High Quality that Doesn't Cost the Earth





Technical Data Probe

Measuring principle: Zirconia oxide sensor

400 °C / 1400 °C (*with cooling tube) Max. flue gas temperature: 300, 400, 500, 800 mm (400 °C version) Protection: Immersion length:

500, 1000 mm (1400 °C version)

ss 316 Ti/ss 304 (1.4571 /1.4301) Material:

Equal to DN 65 PN6 Flange:

Flue gas velocity: max. 25 m/sec

-50 mbar to +50 mbar relative Pressure:

0,5 sec @ 10 m/sec flue gas velocity Response time:

Electrical connection: Quick disconnect plug & socket

Protection: IP 65

6 m, 12 m, 18 m, 24 m, 30 m, Interconnecting cable:

other length on request

Technical Data Electronic

Construction: Sheet steel housing with window

400 mm x 300 mm x 225 mm Dimensions:

5 kg approx. Weight:

115 V or 230 V, 50/60 Hz Supply voltage:

Power consumption: 100 - 200 VA (350 VA during start-up)

Series fused recommended: 10 A

Ambient tenmperature: $-10 \,^{\circ}\text{C}$ to $+45 \,^{\circ}\text{C}$

Immunity from disturbance: according EMV Gandlow-voltage directive 72/73 EWG

EN 55011 cl.B (1998)

EN 61000-6-2 (2001)

Measuring range: 0 to 99% freely adjustable

Output: 0/4 to 20 mA, potential free, 500 ohm max. load Status signal:

System fault, Maintenance

LCD LED illuminates 240 x 64 points graphic display

For high dust loading (400°C) probes with an immersion depth of 400 mm, Display: 500mm and 800mm are available.

* The OXITEC® 5000 Economy System can be used in some selected Interface: higher temperature applications to 1400 °C. The Economy System O, Alarms: is intended and suitable for use in relative clean-gas applications only.

RS 232

Options

2separateoutputs;eachprogrammableforHighorLow





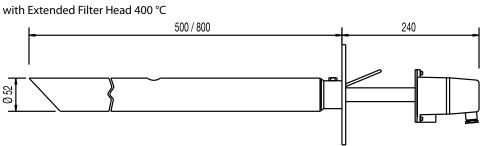


Dimensions of the electronic equipment and standard probe

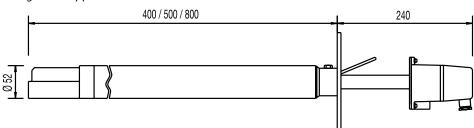
Standard probe 400 °C Sheet steel housing ⊣ Ø 8,2 300 240 240 420

ECONOMY probes

260

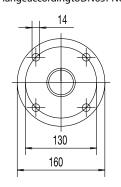


for High Dust Application 400 °C

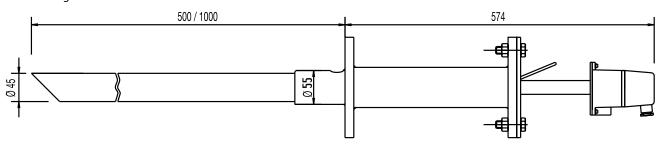


FlangeaccordingtoDN65PN6

All dimensions in mm



with Cooling Tube 1400 °C



All dimensions in mm

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