

# EC1632

## Oxygen Analyzer

The Ecotech Model 1632 Oxygen Analyzer monitors oxygen concentrations in the range of 0 -100% with an accuracy of  $\pm 1\%$ . An optional two sensor version delivers improved performance.

This analyzer can also display ‘%-combustibles’ for instances when the combustion process is fuel rich or has reducing conditions.



## Features

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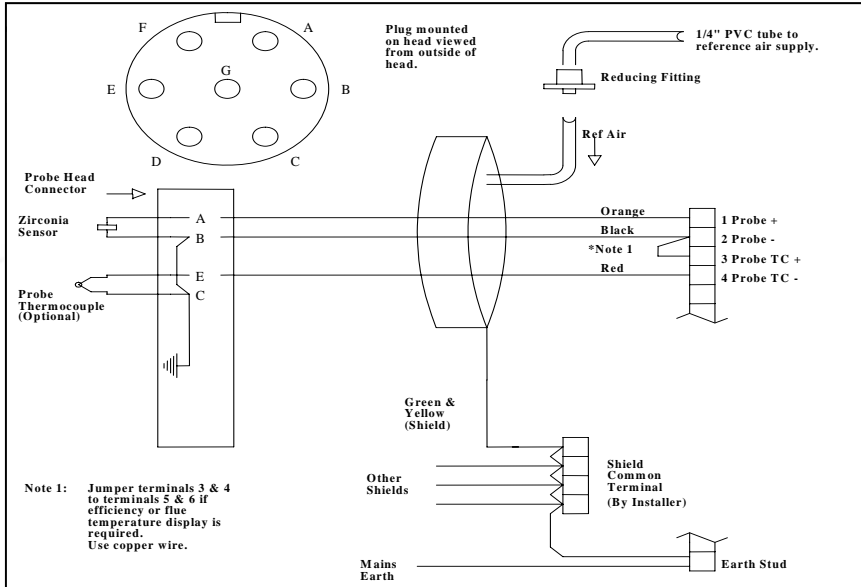
- Easy-to-operate, reliable and requires no regular calibration. An annual check of reference voltages is all that is necessary.
- Local 2 x 16 character display and two transmitted 4-20 mA isolated outputs.
- Incorporates accurate, rapid response, low drift Zirconia O<sub>2</sub> sensors.
- Dual Oxygen sensor option (Ecotech 1632) has automatic inbuilt redundancy in case of failure of either one of the sensors.
- Automatic probe purge cycle.
- Automatic gas calibration check.
- Dual fuel selection.
- Compensation for flue pressure variation.
- Main burner ‘ON’ safety interlock.
- RS232 / 485 computer/printer interface.
- Up to three programmable alarm relays warning of very low, low or high Oxygen concentration, purge, probe temperature and calibration error.



# ECOTECH

WORLD CLASS  
environmental  
MONITORING

## Model EC1632 O<sub>2</sub> Analyzer



## Specifications

### Dilution and Span flows:

Range of Output 1:

Linear: 0-1% Oxygen to 0-100% Oxygen  
 Log: 0.1-20% Oxygen  
 Reducing: 10-30 to 10+2 Oxygen

Output 2:

Oxygen with selectable options as per output 1 using the second sensor input if it is connected or the following selectable variables for sensor 1: Combustibles, Probe EMF, Log Oxygen, Reducing Oxygen, Oxygen Deficiency, Carbon Dioxide, Stack Temp

Range of Indication:

Auto ranging from 10-30 to 100% Oxygen.

Indication Choice Lower Line:

Any or all of the following can be selected for display: Probe EMF, Probe Temp, Ambient Temp, Run Hours & Date since last service, Sensor Impedance, Oxygen Deficiency, Carbon Dioxide, Auxiliary Temperature

Accuracy and Repeatability:

± 1% of actual measured oxygen value with a repeatability of ± 0.5% of measured value. For example at 2% oxygen the accuracy would be ± 0.02% oxygen

Inputs:

One or two zirconia oxygen probes or sensors; Stack or spare thermocouple, type K or R; Main flame safety interlock (for heated probes only); Purge pressure switch; Dual fuel selector

Outputs:

Two linearised 4-20 mA DC outputs

Alarms:

Common alarm relay with 20 alarm functions & three programmable alarm relays for low, very low & high Oxygen, probe under temperature, calibration error, purge occurring & horn RS 232 or RS 485 for connection of a computer terminal or printer for diagnostics of the analyzer, probe, sensor or combustion appliance MODBUS™

Communications:

Purge/Calibration Check:

One purge & two calibration check output relays to operate mains voltage, solenoid valves

Sampling Pump:

Integral diaphragm pump

Relay Contacts:

0.5A-24 VAC, 1A-30 VDC, 50 VAC or 30 VDC max.

Operating Temperature:

0-50°C; 5-95% RH (non-condensing) 24 hours < 0.5% of reading

Connection Cable:

Special cable containing shield, thermocouple compensating lead, sensor conductors & heater conductors where a heated probe or sensor is used

Power Requirements:

240 or 120 VAC, 50/60 Hz, 115 VA (heated probe or sensor), 5 VA (unheated probe)

Weight:

3.2kg

Enclosure:

IP65, suitable for outdoors, wall or surface mounting; IP54 with internal reference air pump

Dimensions:

260 mm wide by 160 mm high by 95 mm deep

Accessories:

In-situ probes & sampling sensors; Ex d enclosures for hazardous areas; Probe & sensor cables; Sample aspirators; Purge & calibration check gas solenoid valves; Calibration check flowmeters

Ordering Information:

Specify model 1632 Oxygen Analyzer with cable length of 10, 20, 30, 40 or 50 metres, with optional weatherproof connector, sampling pump connection if required



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