ENGEZER
SOLUÇÕES EM ANÁLISE DE GASES

Z1110 Analisador de Oxigênio - Zircônia

Tel.: (21) 3445.8120
E-mail: engezer@engezer.com.br
Site: www.engezer.com.br
(21) 97144.1593
@engezer
Engezer Spengezer
sergio.engezer

Z1110 oxygen analysers

Features

- **Measures from 100% to less than 1ppm**
- **Fast response time of less than 5s for 90% change**
- **Autoranging display**
- **Fully programmable analogue output**
- **Low cost with proven sensor technology**

The Z1110 zirconia oxygen analyser measures oxygen concentrations from percentage levels to fractions of parts per million (ppm) in clean gases. Packaged in a robust wall mounting enclosure, it uses a zirconia oxygen sensor to provide accurate measurement with minimal interference from other gases. The unique cell and heater design gives a very fast warm-up time, rapid response, and long sensor life. A choice of sampling options is provided to produce virtually custom-built systems.

A large multi-digit autoranging LCD is used to display measured concentrations and the user-adjustable parameters in configuration mode.

Two alarm channels each provide one set of volt-free changeover contacts. They can be user-configured to any concentration within the span of the instrument, as well as function (high, low or off) and hysteresis. A choice of two analogue outputs is available, 0 to 5V or 4 to 20mA, fully programmable.

The standard sampling system comprises a metering valve and flowmeter. Standard alternatives are available to cover a wide variety of applications. Hitech also supply a range of sample conditioning accessories to cater for most sample sources.

Typical Applications

- **Air separation plants**
- **Nitrogen purged soldering systems**
- **Cylinder gas quality**
- **Pharmaceutical and food packaging and storing**
- **Purge gas monitoring**
- **Glove boxes**

SPECIFICATION

Display
Multi-digit LCD, character height 12.7mm

Range
0.01ppm to 100% oxygen, autoranging

Display resolution

From 10% to 100%:	0.1%
From 0.5% to 9.99%:	0.01%
From 500ppm to 4999ppm:	10ppm
From 50ppm to 499ppm:	1ppm
From 5ppm to 49.9ppm	0.1ppm
From 0ppm to 4.99ppm	0.01ppm

Accuracy

100% to 100ppm:	±2% of reading or better
99ppm to 10ppm:	±1ppm
0.1ppm to 9.9ppm:	±0.2ppm
0.01 to 4.99ppm:	±0.1ppm

Stability
Better than 2% of reading or 0.5ppm/month, whichever is greater

Sample flow
Between 100 and 400ml/min for optimum operation

Speed of response in clean inert atmospheres
% levels: less than 0.5s for 90% change
Levels from 100 to 10ppm: less than 5s for 90% change
Levels less than 100ppm: less than 30s for 90% change
When the cell is stabilised/conditioned at low levels, response to changes at that level is of the order of 3 to 4s

Sample inlet pressure (no pump fitted)
10mbar minimum
8bar maximum

Sample temperature (at analyser)
100°C maximum

Sampling system materials
Materials include: nickel, brass, aluminium, stainless steel, platinum, zirconia, alumina, PTFE and nitrile-rubber

Sample connection (located on back panel of unit)
Captive seal compression fittings suitable for 0.25inch (6mm) outside diameter tube

Analogue outputs
Standard: 0 to 5V
Optional: 4 to 20mA
Each user-programmable between 0 to 100% to 0 to 5ppm

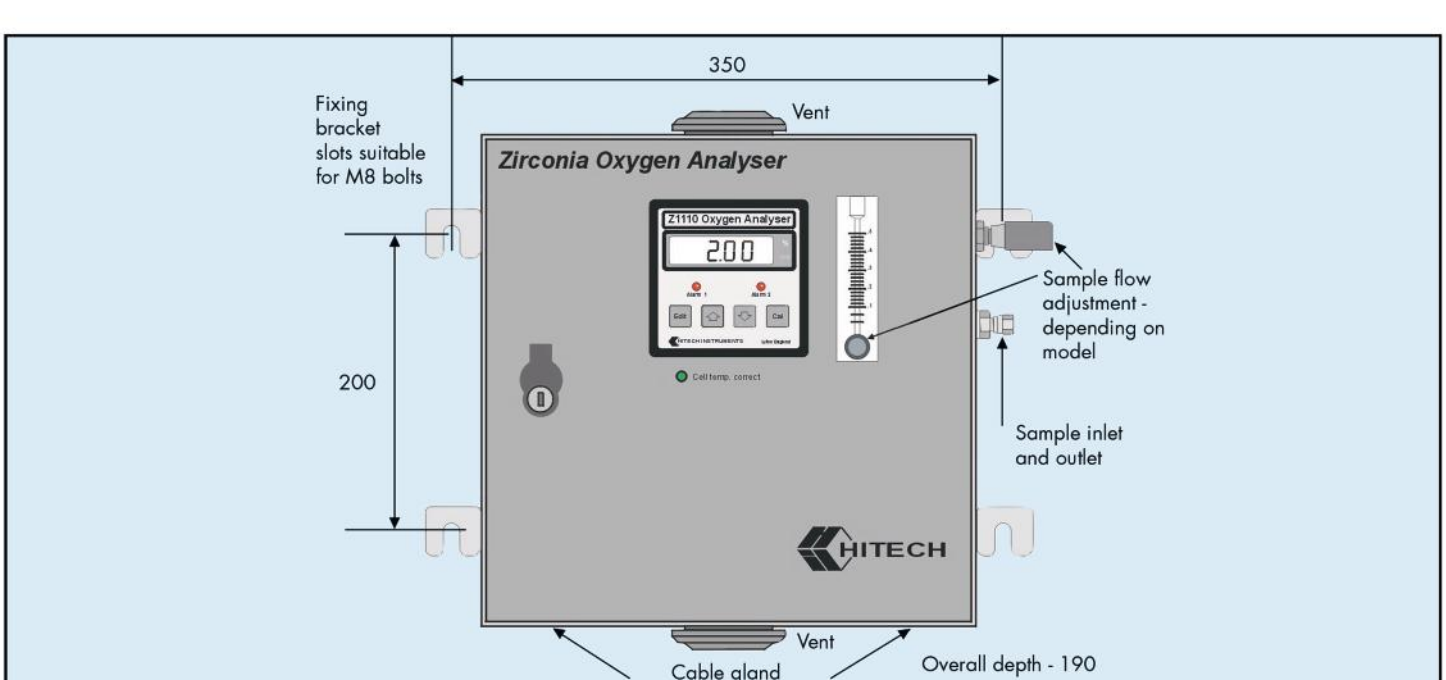
Alarm outputs
2 alarms: each user-configurable to OFF, HIGH or LOW status
Hysteresis programmable from 0 to 10% of set-point
Volt-free changeover relay contacts rated 48V ac or dc, 0.5A, normally-energised

Ambient temperature
45°C maximum

Power supply
Please specify option required from the following:
110/120V, 50/60Hz at 80VA max
220/240V, 50/60Hz at 80VA max

Mounting
IP55 wall mounting enclosure with lockable door:
350mm wide x 300mm high x 190mm deep

Options
Flow alarm
RS232 output
Integral fast flow sample loop systems
Sample pump



In keeping with a policy of continuous development, Hitech Instruments Ltd reserves the right to change any part of this specification without notice

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21.3445 8120
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Caso queira adaptar este produto a suas necessidades usando um sistema de condicionamento, uma automação ou formando um produto, contate:

COMERCIAL@ENGEZER.COM.BR

**para mais informações ou preços*

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