

Yellow Box Portable Oxygen Analyser



The Ntron Yellow Box is a compact, intelligent, transportable Oxygen analyser providing an affordable and versatile solution for portable high purity oxygen measurement applications.

Housed in a rugged high impact case and with microprocessor based electronics, makes the Ntron Yellow Box the instrument of choice for demanding applications where a portable, accurate, fast and reliable High Purity Analysis is required.

Applications

An Oxygen Analyser for use in:

- Glove box purge and leak detection
- Additive manufacturing
- Gas generation (Oxygen / Nitrogen)
- Semiconductor wafer machines
- Wave soldering
- Membrane air separators
- Inert welding gases
- Inert ovens
- Medical gas applications
- Pharmaceutical industries
- Food and beverage industries
- Gas generation industries

Features

- Lightweight, rugged and highly portable
- Mains powered / Rechargeable battery pack
- Dual Oxygen Analysers for % and PPM Measurement
- Measurement ranges:
 - 0 - 1000 PPM Oxygen
 - 0 - 25% Oxygen
 - 0 - 96% Oxygen
- Reliable, long life zirconia sensor technology with Electrochemical options
- Integral Flow Meter for positive pressure sample flow indication
- LCD Displays and 4 button multi-function user interface



Dual Oxygen Analysers

Two switch selectable Oxygen Analyser Modules give % and PPM range measurement respectively.

Zirconia Sensor Technology

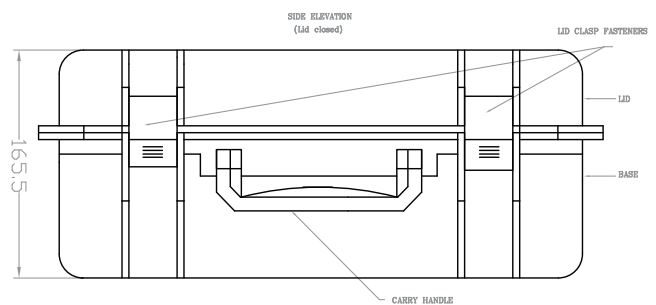
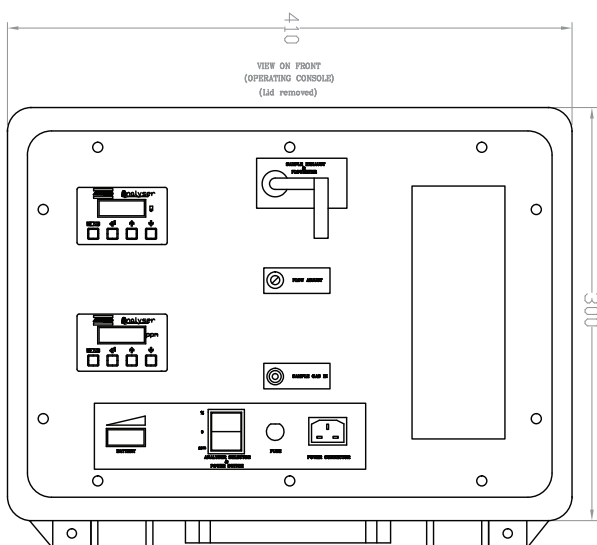
At the heart of the Ntron Yellow Box Portable Analyser are two Solid State Zirconia Sensors for long life, high stability accurate ZRO₂ measurement of % and PPM Oxygen Concentrations.

Minimal Sample requirements

Operating the Yellow Box Portable Analyser is made very simple by the internal sample system. Taking a gas measurement only requires the operator to connect the gas line, purging for a few seconds and switching the valve position. When not in use, the sensor is isolated from the ambient air and process sample.

Fast Response Time

Due to its reduced size and unique design, the Ntron Zirconia ZRO₂ sensor has a T 90 of less than 10 seconds.



Yellow Box

Product specifications

Gas Type Ranges

Oxygen / 0 - 1000 PPM
 Oxygen / 0 - 25%
 Oxygen / 0 - 96%

Sensor Type

Ntron Zirconia ZRO₂ / Electrochemical

Sensor Life

>30,000 hours in 20.9% O₂
 (ambient air)

Response Time (T90)

<10 seconds. Warm up time 10mins from switch on.

Power Requirements

Optional internal rechargeable battery and charger.
 Charge via 3-pin IEC Mains connector
 @ 80 - 230VAC; 50Hz

Environmental Rating

IP67 when case closed for transportation

Connection Ports

6mm 'Bulkhead' tube compression fittings for sample in. Sample exhaust out via integral Flowmeter port.

Dimensions

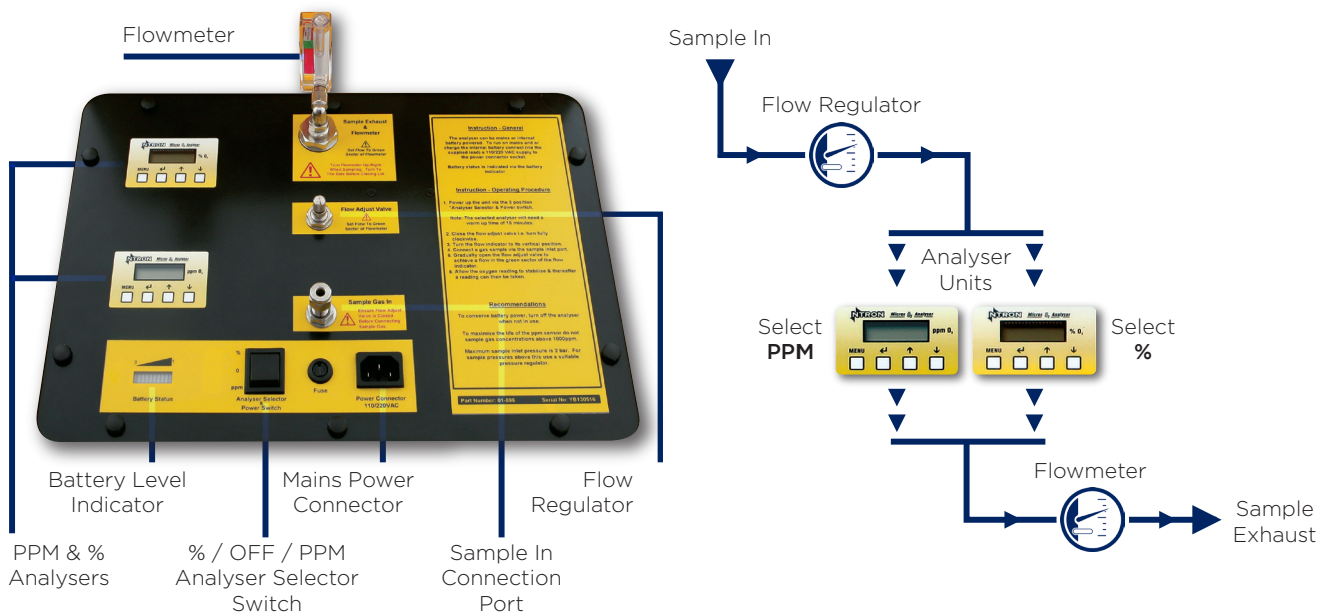
410mm (h) x 340mm (w) x 190mm (d)

Weight

8kg

Yellow Box

Application Setup / System Schematic



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Please note: Ntron Ltd. adopts a continuous development program which sometimes necessitates specification changes without notice. Please contact us for latest version.