

Introduction:

The OXYTRON 2000 Wall Mounted Analyser is a microprocessor based instrument capable of accepting multiple sensor inputs and utilising these inputs to control external user components or alarms based upon user configurable and setpoint signal outputs.

Operation:

Designed to interface directly with Ntron supplied sensors or sampling systems, the analyser is capable of handling two separate sampling systems, including sensor and flow switch inputs, or two separate sensors. The analyser is also equipped to direct and control the automatic calibration of each sensor or sampling system in an independent manner through the use of remotely located solenoid valves. All electrical interfacing with the sensors or sampling systems is made by the user through connection points supplied with the analyser.

The OXYTRON 2000 has a number of operating modes which are user selectable and include a simulation/commissioning mode that allows the user to test the system and various circuits without having to use test gases or sensors. A serial RS-232 communication port allows high speed configuration and remote diagnostics.

All electrical circuits, factory wiring and interface devices are housed in a rugged epoxy coated aluminium enclosure rated for IP66 service. The enclosure is supplied with a clear polycarbonate hinged viewing door to permit system display viewing without compromising enclosure rating. Mounting of the enclosure is made directly to a wall or some other supporting structure through mounting holes integral to the enclosure itself.

Applications:

The OXYTRON 2000 Analyzer provides flexibility for use in various applications with the same reliability and accuracy that has been consistent with the Ntron name. These applications include:

- Reactors
- Mixing vessels



OXYTRON 2000 OXYGEN ANALYSER

- Centrifuges
- Mills & dryers
- Vessel & vent lines
- Ambient atmospheres
- Conveying systems

Features:

The OXYTRON 2000 offers the following features as standard:

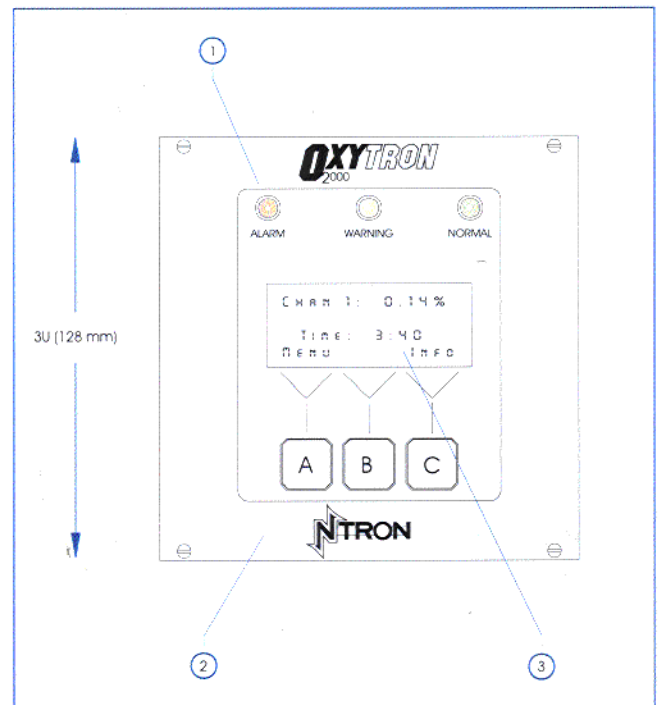
- Dual Sensor Inputs
- Multiple Digital / Analogue Outputs
- Auto Calibration
- Sensor Life 'Predictor' software
- User Configurable Addressable Alarms
- Wall / Surface mounting options
- Password Protected Configuration
- Dual Range Measurement
- Commissioning Mode Feature
- Tag Number Configurable

SPECIFICATIONS	
<i>Range:</i>	0 - 10% and 0 - 25% oxygen
<i>Resolution:</i>	0.01% oxygen
<i>Display:</i>	Backlit 4-line, 16 character LCD Alphanumeric Display
<i>Accuracy:</i>	Instrument: 0.05% O ₂ , before sensor linearization System with Sensor Linearization: 0.25% absolute Hysteresis and Repeatability: 0.05% absolute
<i>Power Requirement:</i>	115/230VAC, 50 Hz
<i>Mounting:</i>	Surface Mounting: Die-cast aluminium IP66 Panel/Rack Mounting
<i>Outputs:</i>	Analogue: Two off 4 - 20mA output signals corresponding to oxygen sensor inputs Digital: Nine single pole relay contact rated 5A @ 277VAC, 5A @ 30VDC, to indicate: - Calibration Sequence - Alarm Set Point Activation - System Maintenance Alarms - System Fault Condition - Sensor Comparison Alarms
<i>Inputs:</i>	Analogue: two oxygen sensor inputs Digital: two digital inputs - contact to indicate system services alarm
<i>Dimensions:</i>	Rack / Flush Mounting: 470mm rack x 340mm x 300mm Wall / Surface Mounting: (WxHxD) 265mm x 240mm x 404mm
<i>Access Ports:</i>	10 off M20 x 1.5 thread
<i>Sensor Types:</i>	Electrochemical, Zirconia or Paramagnetic
<i>Security:</i>	Dual level password protection
<i>Communications</i>	RS-232C (for configuration)
<i>Calibration:</i>	Automatic, Manual or event driven
<i>Approvals:</i>	CE, IEC 1508 (designed)

Analyser Module:

The analyser module provides the heart of the analyser system. The module contains all of the Microprocessor circuits as well as all visual and manual user interfaces. A 4-line, 16-character, alphanumeric, backlit dot matrix LED display is provided to inform the user of system status, measured parameters, system prompts and configuration guidelines.

Three LED status indicators of Alarm (red), Warning (yellow) and Normal (green) provide the user with "at-a-glance" system status. User interfacing with the analyser is achieved through the use of three tactile push button switches labelled A, B and C. The function of each switch will change with the software routine of the analyser and is always displayed on the bottom line of the LCD display



OXYTRON 2000 ANALYSER FACEPLATE

1. Status LED's
2. Operator Keypad
3. Backlit Display