

ONLINE TRACE OXYGEN ANALYSER



DESIGNED TO MAKE THE TASK OF TRACE OXYGEN ANALYSIS
EASIER, FASTER AND MORE PRECISE THAN EVER BEFORE



TA 2000

This unit provides the latest in powerful microprocessor technology while offering tremendous versatility and sophisticated features.

All components are selected to assure these units provide years of operational service. Designed with the user in mind, it offers high accuracy, fast response, and auto diagnostics.

A sensor failure alarm has been provided, taking the worry and work out of the operators hands. Two programmable failsafe concentration alarms (one high and one low setpoint) provide the versatility to satisfy nearly any requirement.

SPECIAL FEATURES

- INSTA RECOVERY ADVANCED MICRO FUEL CELL SENSOR
- DISPLAY GAS CONCENTRATION, UNITS
- EXTENSIVE SELF-DIAGNOSTIC TESTING AT START-UP AND ON DEMAND WITH CONTINUOUS POWERSUPPLY MONITORING
- AUTO RANGING CAPABILITIES
- ONE HIGH AND ONE LOW ALARM SET POINT WITH CORRESPONDING RELAY CONTACTS
- SENSOR FAILURE ALARM
- EXTENDED-LIFE, MAINTENANCE-FREE SENSOR. ONE YEAR WARRANTY AND AN EXPECTED LIFE OF TWO YEARS
- A 16X2-LINE ALPHANUMERIC DISPLAY SCREEN, CONTINUOUSLY PROMPTING AND INFORMING THE OPERATOR
- HIGH RESOLUTION, ACCURATE READINGS OF OXYGEN CONTENT FROM LOW PPM LEVELS THROUGH 25%.

SPECIAL FEATURES

- MONITORING INERT GAS BLANKETING
- AIR SEPARATION AND LIQUEFACTION
- CHEMICAL REACTION MONITORING
- SEMICONDUCTOR MANUFACTURING
- PETROCHEMICAL PROCESS CONTROL
- QUALITY ASSURANCE
- GAS ANALYSIS CERTIFICATION
- HEAT TREATING / BRIGHT ANNEALING
- AND MANY OTHER APPLICATIONS

SPECIAL FEATURES

- -C Auto cal/zero with integrally mounted control valves
- -V Vacuum service
- -K 19" rack mount
- S SAMPLE FLOW INDICATION

Insta-Recovery, Long Life Maintenance Free Oxygen Sensor

The sensor is specific to oxygen and sets industry standards for accuracy, sensitivity, and ease of use and comes with a 1-year warranty. Expected life for the sensor is two years. Historically, the recovery period required when changing or air calibrating trace Micro-fuel Cells was anywhere from 6 to 12 hours. The ENDEE SENSOR recovers to below 10 PPM oxygen within a few minutes of sensor installation. The user is assured of outstanding reliability and optimum performance in just a few minutes. These Micro-fuel Cells are chemical devices with no electrolyte to change making them virtually maintenance free. They are specific to oxygen and are capable of accurately monitoring gas streams.. It is a self powered, diffusion limited, metal-air battery sensor or by reducing gases such as hydrogen, carbon monoxide and hydrocarbons.

Ambient Air Calibration offers Freedom from Support Gases

A calibration range for calibration on Air is provided

This instrument can also accommodate the use of a certified ppm O₂ span or zero gas which speeds calibration when necessary and confirms the system is leak free.

Field - Configurable range options

A unidirectional RS-232 serial interface is incorporated to relay information to a host computer for remote monitoring of all functions.

Convenient Outputs for Data

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Convenient Outputs for Data

Custom Engineering is Endee's main strength

Endee maintains in-house capability to both design and manufacture a wide variety of sample systems tailored to meet out customers' process requirements. We design sample-conditioning systems for our complete line of process analyzers . The trace oxygen analyser can be ordered as a standard unit or as part of a larger cost effective integrated analytical system. The analyser can also be supplied designed as a "split architecture" instrument, meaning that a general purpose, panel mounted Control Unit for non-hazardous areas controls a remote Analysis Unit(Transmitter) that can operate in hazardous areas

SPECIFICATIONS

Indication	: 16x2 Alpha numeric Digital LCD Continuous
Principle of Analysis	: Fast Recovery Self Powered Diffusion Limited sealed Electrochemical Sensor
Ranges (customer selectable)	: 0 - 10, 0 - 100, 0 - 1000 ppm
Accuracy	: $\pm 2\%$ of full scale (± 1 ppm for 0 - 10ppm range) at a constant temperature
Diagnostics	: Comprehensive self testing function
Digital Interface	: RS-232C
Response Time	: 90% in 5 to 10 seconds 90% in 60 seconds (0 - 10 ppm range)
Reproducibility	: $\pm 1\%$ at a constant temperature
Sensitivity	: 0.5% of FS
Alarm Setting	: Hi & Very High Adjustable over full range
Wetted Parts	: 316 Stainless Steel / Teflon
Relative Humidity	: 0 - 99% RH Non-condensing
Housing	: Drawn Aluminium
Recommended Sample	: 0.1 to 5 Litre / Min
Operating Temperature	: 0 to 50 C
Power	: 110 or 220 V (user specified), 50/60 Hz
Analog Output	: 4 - 20 mA isolated output 600 ohms
Sample inlet / outlet	: 1/4" OD Flare fittings
Mounting	: Panel
Mounting Dimension	: 390 x 132 x 230 mm

Note : Specifications and Features will vary with application. The above are established and validated during design, but are not to be construed as test criteria for every product. Due to endee's commitment to research, design and product improvement, specifications are subject to change without notice.



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