

Low Cost, Percent Oxygen Analyzer

3300P A&B

- *Microprocessor controlled*
- *Three year sensor*
- *High reliability*

The 3300P series of low cost, microprocessor-based instruments are specifically designed to satisfy industry's need for a simple yet highly reliable process analyzer. The new models offer excellent accuracy, ease of use, high reliability, low maintenance and a variety of standard features usually found on more expensive instruments. With its easy programming, large red LED display and a 3-year sensor, the 3300P series is a cost-effective solution to many process applications. Two versions are presently available. Model 3300PA is the 19" relay rack version, and the 3300PB serves as the NEMA 4 rated (IP65/66) wall mount type.

FLEXIBILITY

The 3300P offers two ranges that are field configurable between 1% and 25% oxygen with auto ranging capability and a 0-25% calibration range. An optional full-scale range of 0-100% is available. Two fully adjustable high or low concentration alarms provide the versatility to satisfy nearly any requirement.

LONG-LIFE, MAINTENANCE-FREE SENSOR

The 3300P features a new generation of fast responding, long life microfuel cells for industrial applications. With an expected life of 3 years in air and a 90% response time of less than 8 seconds, performance and cost of ownership are exceptional. These sensors set industry standards for accuracy, sensitivity, and ease of use, and come with a two year limited warranty against defects in material and workmanship. The microfuel cell is a sealed electrochemical device with no electrolyte to change or electrodes to clean, making it maintenance free. Specific to oxygen, the sensor can be used in a wide variety of background gases including hydrocarbons.

OUTPUTS FOR DATA TRANSMISSION

A standard 0-10 Vdc output provides range identification, while the oxygen concentration is output through 4-20 mAdc negative ground and 0-10 Vdc negative ground signals. A unidirectional RS-232 serial interface is incorporated to relay information to a host computer for remote monitoring. Configuration information and analysis results are as close as your personal computer.



OTHER PERCENT OXYGEN ANALYZERS AVAILABLE FROM TELEDYNE

* Contact factory or your local representative for specifications

3000PA	Flush panel mounting
3000PB	Bulkhead mounting
3010PA	Split version, flush panel mounting control unit, explosion proof analysis unit
3010PB	Split version bulkhead mount control unit, explosion proof analysis section
3010PAC	Split version, flush panel mounted control unit, CENELEC approved
3010PBC	Split version, bulkhead mount control unit, CENELEC approved
3020P	Totally explosion proof

The 3300P can be ordered in a 19" rack mount (A) or NEMA 4 (IP65/66) wall mount (B) configuration, or as part of a larger analytical system. Teledyne also offers a complete line of trace oxygen analyzers and can supply special sensors; custom engineered analyzers, and complete monitoring systems to satisfy unique applications.

ADVANTAGES

- Customer selectable ranges
- Auto ranging capabilities
- Two fully adjustable high or low alarm setpoints with corresponding relay contacts
- Digital interface allows monitoring from a remote station
- Sensor failure alarm

 **TELEDYNE ANALYTICAL INSTRUMENTS**

SENSORS ○ ANALYZERS ○ SYSTEMS ○ SCIENTIFIC SOLUTIONS

STANDARD FEATURES

Two field configurable ranges plus cal range (0-25%)

Two fully adjustable high or low alarm setpoints with corresponding SPDT dry relay contacts

Long life sensor

Signal output 0-10 Vdc for range identification

Analytical output: 4-20 mAdc negative ground and 0-10 Vdc signals

Universal AC power supply

OPTIONS

- 0-100% oxygen range
- Alternative sensors for samples containing high concentrations of CO₂ (contact factory)
- CENELEC approval

SPECIFICATIONS

Ranges:	0-1 to 0-25% oxygen (0-3% and 0-10% default ranges) and 0-25% calibration range (nominal)
Display:	LED
Accuracy:	+/-2% of full scale at constant temperature, +/-5% of full scale over operating temperature (once temperature equilibrium is reached; at 3% and higher user-defined ranges)
Response time:	90% in less than 8 seconds at 77°F (25°C)

System operating temperature:	32-122°F (0-50°C)
Signal output:	4-20 mA and 0-10 Vdc negative ground, non-isolated
Range identification:	0-10 Vdc
Alarm output:	Two fully adjustable high or low alarms; one sensor fail relay (all alarms are fail-safe) with SPDT dry relay contacts rated at 2A 30Vdc / 0.5 A 115 Vac
System power requirements:	100 - 240 Vac, 50-60 Hz, 10 watts
Sampling system:	Wetted parts - brass and nylon
Customer connections:	1/4 inch tube with 6mm adapters
Dimensions:	3300PA: 5.25" H x 19" W x 4.7" D (133mm H x 482mm W x 119mm D) 3300PB: 10" H x 8" W x 6" D (NEMA 4 rated) (254mm H x 203mm W x 152mm D)
Oxygen sensor:	Class I-22; 3 year expected life in air @ 25°C, 50% RH
Sensor warranty:	2 years against defects in material and workmanship

TELEDYNE ANALYTICAL INSTRUMENTS

A Teledyne Technologies Company

16830 Chestnut Street
City of Industry, California 91748, USA

TEL: 626-934-1500 FAX: 626-934-1651
TOLL FREE: 888-789-8168

Visit Our Web Site at:
www.teledyne-ai.com

Regional Office

Tokyo, Japan81-33-239-9090

Warranty

Instrument is warranted for 1 year against defects in material or workmanship

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. All specifications and features are subject to change without notice.

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The 3300P is a CE marked product

