

# MODEL 3220 Percent Oxygen Monitoring System

Teledyne Analytical Instruments (TAI) Model 3220 Oxygen Deficiency Detection System provides a streamlined and rugged solution to monitoring breathing oxygen levels in any indoor location where compressed gases may be present.

The 3220 consists of channel modules, each capable of interface with a detector monitoring ambient oxygen levels at a remote location. Detector modules utilize TAI's Class B-3 Micro-Fuel Cell with rugged and easy-to-maintain design, simplifying maintenance.

Channel modules can be mounted in a control module, which can be provided in a 3 or 8 channel configuration available in rack, panel and wall-mount designs. Individual channels can be installed into unused slots or removed as required. Each channel module includes a 0-10 VDC or 4-20mA (negative ground) analog output and two fully-configurable alarms with Form-C contacts. Easy-to-view LEDs give local indication as to an alarm condition.



3220 CHANNEL MODULE



3220 3-CHANNEL & CONTROL MODULE



3220 8-CHANNEL CONTROL MODULE



# 3220 - Percent Oxygen Monitoring System

## Specifications – Control / Channel Modules

- **No. of channels:** Up to 8 per control module
- **Field connections:** Terminal strips with screw connections
- **Dimensions of 8-ch control module:** 7" H x 12.3" D x 19" W (178 mm x 312 mm x 483 mm)
- **Housing:** Aluminum, 19" rack-mount
- **Display:** Transreflective backlit 4-digit, 7-segment LCD
- **Range:** 0-25% Oxygen
- **Repeatability:**  $\pm 2\%$  of full-scale
- **Accuracy:**  $\pm 2\%$  of full-scale at constant temperature
- **Alarm indicator lights:** LED
- **Signal output:** 0-10 VDC, optional  
4-20 mA DC (negative ground)
- **Operating temperature:** 32 °F to 122 °F (0 °C to 50 °C)
- **Alarm relays:** Form-C type  
Fail-safe / Non-fail-safe  
Latching / Non-latching
- **Power:** 100-240 VAC 50/60 Hz  
6 W / channel nominal

## Specifications – Detector

- **Probe:** Nylon construction (others available)  
1.56" Dia x 2.63" LG  
(39.7 mm Dia x 66.7 mm LG)
- **Probe Mounting:** 2 holes, horizontal to one another,  
3/16" Dia each, 2.38" separation
- **Standard cable length:** 6 feet (1.8 meters)
- **Non-standard cables:** Available upon request
- **Sensor:** Class B-3 Micro-Fuel Cell
- **Operating Temperature:** 32 °F to 104 °F (0 °C to 40 °C)
- **Accuracy:**  $\pm 1\%$  of full-scale
- **Response Time:** 90% of scale in less than  
13 seconds
- **Expected life:** 12 months on air exposure



CONTROL MODULE  
SYSTEM ENCLOSURE

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