

RIKEN

INDOOR OXYGEN MONITOR

MODEL OX-500



Built-in sensor

3 color LED Digital Display



Normal



Warning



Alarm

Applications

- Prevent oxygen deficient accidents
- Control oxygen levels
- Laboratories
- Warehouses
- Tunnels
- Clean room
- Basements

Features

- Compact, wall mounting design
- Highly visible 3 color LED digital display
- Remote sensor capability
- Power cable can enter from any direction
- Stores alarm summary data.
(10 alarm occurrence, time and alarm concentration)



95QR 007
Object place of business
Tokyo factory, Okegawa factory



97ER 005
Object place of business
Tokyo factory



RIKEN KEIKI

Specifications

Model Name	OX-500
Detection Principle	Galvanic cell
Sampling Method	Diffusion
Enclosure	Wall mounting (Uses mounting plate or mount in a switch box)
Cable Entry	All directions and the rear
Measuring Range	0~25.0 vol% (0.1 vol% digit)
Display	3 digits , 3 color LED (Green, Orange, Red) , Normal : Green
Types of Alarms	Gas alarm : 2 decrease alarms, latching mode (Non-latching with reset switch) Trouble alarm : Self reset
Preset Alarm Levels	1st : 19.0 vol% , 2nd : 18.0 vol%
Alarm Relays	Normally-open contact for both AL1/AL2, rated 125VAC to 1A (Resistive load)
Display of Alarm	Gas alarm 1 : Flashing orange LED with gas display, flashing AL1 orange LED, intermittent buzzer Gas alarm 2 : Flashing red LED with gas display, flashing AL2 red LED, continuous buzzer sound Trouble alarm : Flashing of red error message [E-**] (Displays error number at**), short intermittent buzzer sound
Outputs	4~20mADC
Operating Temp. & Humidity	0~40°C (0~104°F), below 95%RH, (non-condensing)
Power requirement	100VAC, 50/60Hz, Max 3.5VA, supplied with power cable(3m) or 24VDC, Max 2.0W
Dimensions	Approx. 95(W)×135(H)×35(D)mm
Weight	Approx. 420g (220g for 24VDC operation)

※ Specifications subject to change without notice.

Optional Accessories

Remote sensor

- Cable length : 3m, 5m, 10m, 20m
(Specify when ordering)
- Cable used : EM-MEES (0.5sq) ,
2-core



Oxygen Deficiency and Its Reaction to Human Being

O2	Symptoms	O2	Symptoms
21%	Normal Oxygen in air 	14% ↓ 9%	Fading consciousness, Headache, Nausea, Pale complexion (cyanosis), Slow reaction.
18%	Safety limit, Needs ventilation 	10% ↓ 6%	Loses consciousness, Cramps of the whole body.
16% ↓ 12%	Strained breathing, High pulse, Decrease of mental concentration, Headache, Ears ring, Nausea. 	Below 6%	No consciousness, Lethargy, Stop breathing, Heart rate stops, Die within 6 min.



A9812



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