STAND ALONE OXYGEN DEPLETION & TOXIC GAS DETECTOR/CONTROLLER

AMPCONTROL LABS AND INDUSTRIAL CONTROLLERS

PRODUCT BROCHURE

CMC-SA01 SERIES PRODUCT DETAIL

- Single channel standalone detector and controller
- Choice of sensors
- Built-in long life sensor
- Specifically designed for laboratories and industrial applications
- Data logging function
- Built in large backlit display and smart beacon with buzzer
- Built in programmable relays and 1x linearised analog output
- Designed for easy installation and minimum maintenance during operation
- Highest performance at the lowest price



APPLICATION

- Oxygen depletion and toxic gas monitoring in confined spaces
- Oxygen depletion and toxic gas monitoring in food and beverage, pharmaceutical industries
- Oxygen depletion and toxic gas monitoring in residential and commercial buildings
- Oxygen depletion and toxic gas monitoring recreational facilities and shopping malls
- Oxygen depletion and toxic gas monitoring libraries and other indoor places
- Oxygen depletion and toxic gas monitoring in car repair workshops, loading docks and other places where air quality could possibly worsen

FEATURES

- Wall mount
- Long life electrochemical sensor, long term stability, and high accuracy
- Data logging
- Simple user calibration
- Analog output (4~20mA)
- Programmable volt free relay contacts
- Optional Modbus RS-485 communication
- Optional remote display
- Wide working voltage





SPECIFICATIONS				
Oxygen Depletion and Toxic Gas Monitor and Controller				
Target Gas	Please refer list of gases			
Sensing Element	Electrochemical sensor			
Gas Sample Mode	Natural diffusion			
Warm Up Time	1hour (cold start)			
Response Time (T90)	< 60 seconds			
Signal Refresh Rate	1s			
Measuring Range	Refer list of gases			
Accuracy	<±5%FS (at 20±5°C/ 50±20%RH)			
Sensor Life	2 years (subject to environmental variables and background gases)			
Electrical				
Power Supply	90VAC- 265VAC 50/60Hz			
Power Consumption	3W			
Wiring Connections	Pre-wired supplied with 1m cable and Australian 3-pin plug			
Outputs				
Analog Output	1x4~20mA linear			
Relays	Two programmable relays, volt free relay contacts (1NO, 1 NC)			
D/A Resolution	16 bit			
Beacon/Sounder	Built in, RED flashing light with alarm sounder 100db @1m			
Communication Interface	Modbus RS485 interface (optional)			
General Performance				
Operation Temperature	0-50°C			
Operation Humidity	15–95%RH, non-condensing			
Storage Conditions	0-50°C			
Net Weight	1kg depending upon the type of enclosure			
Dimensions	180mm (W) × 335mm (H) × 100mm (D) (ABS enclosure)			
Installation Method	Wall mount			
Housing and IP Rating	Plastic enclosures: PC/ABS fire-retardant plastic, IP20			





MODEL SELECTION

MODEL	DESCRIPTION
IGD-L2200- XXX	Gas detector with built in LCD display, built in beacon and buzzer, analog 4-20mA output and two alarm relays
IGD-L2200C- XXX	Gas detector with built in LCD display, built in beacon and buzzer, Analog output, Modbus RS485 and two alarm relay

Target gas	Gas	Detection range	XXX code
Carbon Monoxide	СО	0 - 2000ppm	001
Hydrogen Sulfide	H ₂ S	0 - 100ppm	002
Sulfur Dioxide	SO ₂	0 - 100ppm	003
Ammonia	NH ₃	0 - 200ppm	004
Nitric Oxide	NO	0 - 200ppm	005
Nitrogen Dioxide	NO ₂	0 - 200ppm	006
Chlorine	Cl ₂	0 - 20ppm	007
Ozone	O ₃	0 - 50ppm	008
Oxygen	O ₂	0 - 30%VOL	009
Formaldehyde	НСНО	0 - 100ppm	010
Hydrogen	H ₂	0 - 1000ppm	011



