



Single Channel



Two Channel

MAC Controllers provide reliable self-contained gas detection, available in one or two sensor versions. Many different electrochemical sensors can be integrally installed in the MAC.

Any AST series transmitter can be remotely mounted and connected to the MAC controller.

The standard housing is rugged PVC and an optional watertight polycarbonate housing is available to suit different applications.

Calibration and maintenance procedures are simple and are easily performed in the field.

Gases Detected:

CO, NO₂, Ammonia, Chlorine, Ozone, H₂S
Oxygen, NO, SO₂, Hydrogen, ETO

Applications:

Vehicle exhaust - parking garages, repair shops
Fire Halls & Ambulance Bays
Arenas - Ammonia, CO, NO₂
Pools - Chlorine, Ozone
Food plants - Ammonia
... and many more

MAC features:

- 2 alarm relays
- audible alarm
- LED indicator for power and alarm status
- temperature compensation
- automated calibration
- calibration due notification
- sensor self-test (CO only)
- selectable time delays on alarm

MAC Mini Controllers

SENSOR LOCATION

Single Integral Sensor	A
Single Remote Sensor	B
Two Remote Sensors	C
Dual: 1 integral and 1 remote	D
E type: 2 Integral sensors	E

SENSOR ONE

Ammonia (NH3)	EAM
Carbon Monoxide (CO)	MCO
Chlorine (CL2)	ECL
Ethylene Oxide (ETO)	EET
Hydrogen (H2)	EH2
Hydrogen Chloride (HCL)	EHL
Hydrogen Cyanide (HCN)	EHN
Hydrogen Sulphide (H2S)	EHS
Nitric Oxide (NO)	ENO
Nitrogen Dioxide (NO2)	END
Oxygen (O2)	002
Ozone (O3)	E03
Sulphur Dioxide (SO2)	ESO

SENSOR TWO

Select from above list

OPTIONS

Analog Output 4-20 mA	A
Datalogger	B
90 dB audible alarm	I
Strobe light	L
Strobe / siren combo alarm	M
LED Digital Display	N
Sample Pump	Q
Splashguard	S
Watertight enclosure	W

REMOTE SENSOR

Use any AST series transmitter for remote sensor applications

CONTROLLER SPECIFICATIONS

STANDARD ENCLOSURE

Size	8.8" x 11" x 3.6" 223 mm x 292 mm x 90 mm
Weight	1.2 pounds 540 grams
Material	Rugged Drip proof PVC

OPTIONAL WATERTIGHT ENCLOSURE

Size	9" x 10.5" x 6" 230 mm x 265 mm x 150 mm
Weight	3.5 pounds 1.6 kg
Material	Fiberglass

POWER REQUIREMENT

18 - 30 VDC or 16 - 30 VAC
Optional 120 VAC

INDICATION

Visual	Tricolor LED light for Power, Fault, Low Gas Alarm, High Gas Alarm
Audible	Integral audible alarm rated 80 dB at 10' Silence button
Option	LED digital display

RELAYS

Two SPDT dry contact relays, rated 5 amps @ 240 VAC
Delays ON (on make) and OFF (minimum run time)

ANALOG OUTPUT

Option 4 - 20 mA or 0 - 10 VDC output

OPERATING ENVIRONMENT

Temperature	-20 to +40 degrees C -5 to 104 degrees F
Humidity	0 to 95% non-condensing

FUSES

Automatic resetting thermal

CERTIFICATIONS

CSA / UL
CE pending



Critical Environment Technologies Canada Inc.

145 - 7391 Vantage Way, Delta BC Canada V4G 1M3

Phone 604-940-8741 Fax 604-940-8745

Toll free 877-940-8741

www.critical-environment.com