

# AST Analog Transmitters



Standard Housing



Watertight Housing

The AST series are rugged, reliable analog transmitters available with electrochemical, catalytic or solid state sensors to detect a wide range of gases.

AST transmitters convert the raw signal from a sensor into a useful output that can be sent to a controller or building automation system.

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

AST transmitter features:

- 4-20 mA or 0-10 V linear output signal
- thermal resetting fuse
- LED indicator for power and alarm status
- temperature compensation
- automated calibration
- calibration due notification
- sensor self-test (CO only)

Applications:

Vehicle exhaust - CO, NO<sub>2</sub>

Parking garages

Repair shops

Arenas - Ammonia, CO, NO<sub>2</sub>

Pools - Chlorine, Ozone

Food plants - Ammonia

Boiler rooms

Chiller rooms

Machine rooms

... and many more

Gases Detected:

CO, NO<sub>2</sub>, Ammonia, Chlorine, Ozone, H<sub>2</sub>S

Oxygen, NO, SO<sub>2</sub>, Hydrogen, ETO

Combustible gases - Methane, Propane

Refrigerants

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

# AST Analog Transmitters

## SENSOR TYPE

Catalytic Pellistor	C
Electrochemical Toxic	E
HVAC Electrochemical (CO only)	M
Electrochemical Oxygen	O
Solid-State (HVAC applications)	S

## GAS TYPE

Ammonia (NH3) electrochemical	EAM
Carbon Monoxide (CO)	MCO
Combustible Gas / Vapours	SCB
Chlorine (Cl2)	ECL
Ethylene Oxide (ETO)	EET
Hydrogen (H2)	EH2
Hydrogen Cyanide (HCN)	EHN
Hydrogen Sulphide (H2S)	EHS
Nitrogen Dioxide (NO2)	END
Nitric Oxide (NO)	ENO
Oxygen (O2)	OO2
Ozone (O3)	EO3
Sulphur Dioxide (SO2)	ESO
Refrigerants R12,	SR0
Refrigerants R22,	SR1
Refrigerants R11, R134A, R507	SR2
Cigarette Smoke	QCS

## OPTIONS

Duct Sampling Probe	D
Local Digital Display	N
Relay	R
Splash Guard (Watertight enclosure only)	S
Watertight Polycarbonate Enclosure	W

## OTHER CET TRANSMITTERS

- Infrared CO2 - Industrial and HVAC
- Infrared Hydrocarbons
- Infrared Refrigerants
- Explosion Proof Transmitters
- Two Wire Analog Transmitters

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



## SPECIFICATIONS

### ENCLOSURES

Standard	General Purpose PVC
Size	4.5" x 6.1" x 2.6" 114 mm x 156 mm x 65 mm
Weight	9 ounces 148 grams

Optional	Watertight Polycarbonate
Size	4.9" x 4.9" x 2.6" 125 mm x 125 mm x 65 mm
Weight	9 ounces 148 grams

### POWER REQUIREMENT

16 to 30 Volts DC or AC

### OUTPUTS

Linear 4 to 20 mA signal or  
 Linear 0 to 10 VDC signal  
 Optional relay rated 2 A @ 24V SPDT

### WIRING

VDC	Three conductor shielded
VAC	Four conductor shielded

### FUSES

Automatic resetting thermal

### OPERATING TEMPERATURE

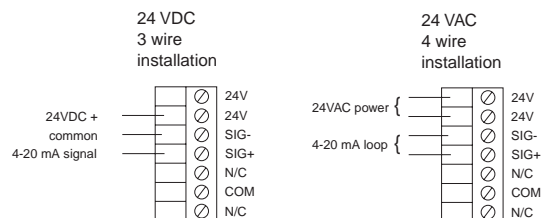
-20 to +40 degrees C sensor dependant  
 -5 to 104 degrees F sensor dependant

### HUMIDITY

10 to 95% RH non condensing sensor dependant

### CERTIFICATION

CE



Bottom three terminals for relay wiring (optional)