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## COMBUSTIBLE GAS MODULE

## MODEL TOX-COMB/ANA

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### TYPICAL INSTALLATIONS:

**Battery Charging**

**\*Office Building**

**\*Warehouses**

**\*Golf Courses**

**Airport Hangers**

**Vehicle Storage**

**Boiler Room**

**Gasoline Storage**

**Laboratories**

**Maintenance Garages**

**Waste Water Treatments**

**Underground Utility**

**Chemical Plants**

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### GENERAL DESCRIPTION:

The Model TOX-Comb/ANA Combustible Transmitter/Sensor Module is designed to interface with TOXALERT Models TOX-4ANA and TOXControl controllers. It can also interface with PLC/DDC building automation systems using standard 4-20mA loop controllers.

The Model TOX-Comb/ANA is highly reliable and very cost effective for the detection of common combustible gas hazard applications. The module requires a three wire connection to controller which provides the nominal 24 VDC power and the module sources a 4-20mA current in proportion to the combustible gas concentration.

The Model TOX-Comb/ANA can be used either indoors or outdoors. The flame arrester utilizes a patented coating which makes it water repellent. Also, splash guard and duct mounting accessories are available.



**TOX-COMB/ANA**

### STANDARD FEATURES:

- Catalytically aided platinum bead sensor
- 0-100% LEL range
- Poison resistant sensor standard
- Water repellent patented sensor coating
- Linear 4-20mA output
- % LEL readout provided during calibration-using any volt meter
- Indoor or outdoor use
- Explosion proof construction (Class 1, Div. 1, Groups B,C,D).

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## SPECIFICATIONS:

### SENSOR

Type: Catalytically aided platinum bead  
Range: 0-100 LEL  
Response: 90% in 45 seconds  
Typical Life: Three years in normal service  
Zero Drift: Less than 5% per year

### ELECTRICAL DATA

Wiring: 3 wire non-insolated  
Input Voltage: 11-30 VDC  
Input Current: 200 mA at 24 VDC  
Input Power: 2.3W  
Output: 4 to 20 mA  
Loop Resistance: 800 Ohms

### CALIBRATION

Adjustments: Zero, span  
Test Points: Current, voltage, output

### ENVIROMENTAL (TEMPERATURE)

Operating: -40° F to 185° F (-40° C to 85°C)  
Humidity: 0-99% RH, non condensing

### CONSTRUCTION

Electrical Class: Class 1, Div., Groups B,C & D  
Mounting: Conduit or flexible cable  
Physical: 7.25" x 3.5" x 3.5"  
(18.4 cm x 8.9 cm x 8.9 cm)  
Weight: 1.5 pounds (0.68 kg)  
Housing: Cast Aluminum

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## Partial List of Available Combustible Gases

Acetic Acid  
Acetone  
Acetylene  
Butane  
Iso-Butane  
Butene-1  
iso-Butyl Alcohol  
ios-Butyl Benzene  
Dimethyl pentane  
Ethane

Ethyl Acetate  
Ethyl Alcohol  
Ethylene  
Diethyl Ether  
Dimethyl Ether  
Heptane  
Hexane  
Hydrogen  
Methane  
Methyl Acetate

Methyl Alcohol  
Methyl ethyl Ketone  
Natural Gas  
Octane  
Pentane  
Propane  
Propyl Alcohol  
Toluene  
Xylene  
JP-4 (Jet Fuel)



Splash Guard

### AVAILABLE ACCESSORIES

- \* Calibration adaptors
- \* Remote sensor option
- \* Splash Guards
- \* Duct mount kit
- \* Calibration Kits
- \* Remote horns & strobes



Strobe Light



CalKit

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