

COMBUSTIBLE GAS MODULE 4-20mA

MODEL TOX-COMB/ANA

FEATURES:

- AUTOMATIC CALIBRATION INTERRUPT AND DELAYED RETURN TO ON LINE
- % LEL READOUT PROVIDED DURING CALIBRATION – USING ANY VOLT METER
- LOW IN SENSITIVITY CHECK BUTTON BUILT IN
- FAULT INDICATION – VISUAL AND ELECTRICAL
- POISON RESISTANT SENSOR STANDARD



PRODUCT DESCRIPTION:

The Model Tox-Comb/ANA Combustible Gas Sensor Module is designed for use in conjunction with industry standard 4-20 mA loop controllers. The module requires three wire connection to the controller which provides nominal 28 VDC. The module sources current in proportion to the gas concentration.

The Tox-Comb/ANA is one of a series of 4-20 mA modules also available for detection of hydrogen sulfide, oxygen and carbon monoxide.

A magnetically actuated switch in the sensor locks the loop current at 4 mA (zero gas) during calibration. The calibration delay feature holds the loop in this condition for five minutes to insure that no false alarm occurs during sensor recovery.

A cover plate in the explosion proof enclosure contains:

- Test points (which are receptacles for volt meter probes) for measurement of bridge current, sensor signal, bridge voltage and calibration switch.
- Sensitivity check button.
- Visual, LED indicators for fault condition, low sensitivity and calibration delay.
- Potentiometer adjustments for zero, span and bridge voltage.

SPECIFICATIONS:

SENSOR

Type: Catalytically aided platinum
 Range: 0 – 99% LEL
 Response: 90% in less than one minute
 Typical Life: Three years in normal service
 Zero Drift: Less than 5% per year

ELECTRICAL DATA

Wiring: 3 wire non-insolated
 Input Voltage: 14 – 30 VDC
 Input Current: 80 mA at 28 VDC
 Input Power: 2.3 W
 Output Range: 4 mA = 0%, 20 mA = 100% LEL
 Loop Resistance: 800 Ohms

CALIBRATION

Adjustments: Zero, span, bridge voltage
 Test Points: Bridge, current, voltage, output
 Calib. Switch: Ext. magnet locks 4 mA output
 Calib. Frequency: Recommended quarterly calibration

ENVIRONMENTAL (TEMPERATURE)

Operating: -40° to 70°C
 Storage: -55° to 85°C

CONSTRUCTION

Electrical Class: Division 1, Class 1, Groups C & D
 Mounting: Conduit or flexible cable
 Physical: 7.5" x 4" x 4"
 Weight: 2 pounds

