

CTS-M5

Toxic Sensor Series

The CTS-M5 Series has a microprocessor based transmitter. It uses an Electrochemical gas sensor to monitor a variety of gases. The CTS-M5 Series offers great value since it includes many standard features that can only be found as expensive options in other manufacturer's models. A digital display (LCD), push-button programming and on-board meter jacks are all standard. The transmitter provides an analog output of 4-20 mA or 2-10 VDC, proportional to the measured gas range, for transmission to the building management system. The CTS-M5 Series offers flexibility and simplicity in one package. The relay setpoints may be seen as increasing or decreasing actuation simply by adjusting the deadband relationship. Set the deactuation point above the actuation setpoint and the CTS-M5 will automatically alarm on decreasing concentrations. Plus, calibration is extremely simple. First, apply the calibration gas and then adjust the potentiometer to the desired reading on the display.

The CTS-M5 Series are covered by ACI's Two (2) Year Limited Warranty, which is located in the front of ACI's Sensors & Transmitters catalog or can be found on ACI's web site, which is: www.workaci.com.



SPECIFICATIONS			
Supply Voltage	+24 VDC or 24 VAC floating or one side ground		
Supply Current	100 mA nominal/250 mA maximum		
Sensor Type	Electrochemical		
Sensor Life Span	2 to 3 years typical (under normal conditions)		
Gas Measurement Range	O ₂ , 0 to 25% v/v NO, 0 to 100 ppm NH ₃ , 0 to 50 ppm		
Outputs	4-20 mA, +2-10 VDC, Digital RS-485, (2) SPDT Form 1C Relay		
Accuracy/Repeatability	+/- 2.5% of Reading/+/- 1.0% of Reading		
Relay Rating	(2) SPDT Form 1C rated @1 Amp dry contact		
Time Delays	Actuation: 0-60 minutes in 5 minute increments, De-Actuation: 0-60 minutes in 5 minute increments		
Buzzer Rating	Rated for 85 dB @ one foot		
Response Time	Less than 60 seconds typical for a 90% step change		

Indicators Two line 8 digit Alpha Numberic LCD (2) Red LED's for Relay Status

Operating Temperature Range -4° to 104°F (-20 to 40°C)

Operating Humidity Range 15 to 90%, non-condensing, 0 to 99% Intermittent (non-condensing)

Operating Pressure Range Atmospheric +/- 10%

Maximum Sensor Coverage Area 7,500 ft² (O2, NH3): 5,000 ft² (NO, NO2) Mounting Height Above Floor 4 to 6' (NO, O2): 0.5 to 1.5' (NH3)

ORDERING

Select one Gas Type (A), one Enclosure (B), one Relay (C), & one Conformal Coating Option (D). NOTE: The LCD option is not available for NEMA 4X related configurations.

A Gas Type	B Enclosure	C Relays	D Conformal Coating
130 (Oxygen)	Q0 (NEMA 1 Wall Mount)	0 (None) (Standard)	○ 0 (No Coating) (Standard)
190 (Nitric Oxide)	O D0 (Duct Mount)	R (2) SPDT Form 1C Relays, LCD & Buzzer)	○ W (Conformal Coating)
220 (Ammonia)	○ N0 (NEMA 4X)		

BUILD PART NUMBER

After completing (A), (B), (C) & (D) from the above table, fill in the Part Number Table below. "Sensor Series" (CTS-M5), "Revision" (X) & "Factory Provided" (000) are factory defaults. An example part number is offered.



EXAMPLE: CTS-M5130X - Q0RW000