



Certification Record

CUSTOMER	CLASS	FILE
Global Detection Systems Corp 2513 Hwy 646, Santa Fe TX 77510 USA	4828-02 SIGNAL APPLIANCES-Toxic Gas Detection Instruments - For Hazardous Locations	234926
Refer to Class Description for program details		

Class I, Groups B, C and D:

Toxic Gas Detector Transmitter, stationary, Model "M1-EC" ; Input rated 18-30V dc; 500mA; ; Output rated 4-20mA; optional contacts rated 30V dc or 250 V ac, 5A max.. May be used with Modbus card p/n 10-0128 or Alarm card p/n 10-0130. Sensor head assembly p/n 10-0194-XX may be integral or remote when used with the Remote Mounting Kit p/n 10-0193 for remote sensor installation (Class I, Groups C and D)

NOTE: suffix XX denotes the type of electrochemical cell the sensor head is fitted with.

Class I, Div. 2, Groups A, B, C and D;

Two Channel Controller, Model: C2 "Protector"; Rated Input: 100-240Vac, 50/60Hz, 0.45Amps, 20 Watts or 10-30Vdc 3 Watts, Solid State relay contacts rated 250Vac, 2.0 Amp, Optional mechanical relay contacts rated 250Vac, 5.0 Amp; All other signal circuits all SELV, Ambient -25 to 50°C, installation category II, pollution degree 3. May be used with the following optional boards: 4-20mA Analog output pcb Module # 10-0223, Electrochemical sensor input pcb Module # 10-0220), Analog Input pcb Module # 10-0221, and Discrete Relay PCB Module # 10-0222.

Class I, Div. 2, Groups A, B, C and D;

Sixteen or Eight Channel Controller, Model: C1 "Protector"; Rated Input: 110-120/220-240 V, 50/60 Hz, 3.2/1.6 A, Mechanical relay contacts rated 250Vac, 5.0, operating temperature range -20 to 60 °C. Contains the following PCB's: Main I/O PCB with common relays # 10-0142. May be used with the following optional boards: Aux. Relay piggyback pcb # 10-0144, 4-20mA Analog output pcb # 10-0167, Analog input pcb # 10-0158 and Discrete Relay PCB # 10-0195.

Notes :

1. The equipment is intended to be connected to supply mains with a suitable conduit according to the applicable local and national (CEC & NEC) regulations. Power supply cord and its entry inside the enclosure was not part of the investigation.
2. The suitability of the combination for rack mounting must be determined during the end usage.

Class I, Groups A, B, C and D:

Model No. 10-0248, Toxic Gas Stand Alone Transmitter, input rated 10 to 30V dc, 0- 25mA. Explosion proof. Intrinsically safe only when installed per Drawing # 11-0100 with entity parameters as follows: Vmax: 30V, I max: 100 mA, Ci: 0, Li: 0, Pmax: 1.2W. Temperature Code T4 (for IS versions only). Ambient Temperature -40° C to +60° C.

Model No. 10-0248IS, Toxic Gas Stand Alone Transmitter, input rated 10 to30 dc, 0- 25mA; Intrinsically safe when installed per Drawing #11-0100 with entity parameters as follows: Vmax: 30V, I max: 100 mA, Ci: 0, Li: 0, Pmax: 1.2W. Temperature Code T4. Ambient Temperature -40° C to +60° C.

Model No. GASMAX, Toxic Gas Stand Alone Transmitter, input rated 10 to 30V dc, 5 watts max.. Intrinsically safe (entity) with 10-0247 or 10-0247IS Sensor Head (except with 10-0233/10-0234 Relays option) or Explosion Proof (Class I, Groups B, C and D) with any CSA certified explosion proof toxic sensor head when installed per Drawing # 11-0100 Explosion Proof (Class I, Groups B, C and D) with 10-0247 Sensor Head. Entity parameters: Vmax: 30V, I max: 100 mA, Ci: 0, Li: 0, Pmax: 1.2W. Temperature Code T4 (for IS versions only). Ambient Temperature -40°C to +60°C. Optional alarm contacts rated: 5A @ 30 VDC & 250 VAC. Note: Explosion Proof versions may be fitted with two sensor heads using p/n 0010-1200 "Y" fitting.

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