**Model 580A**

**Dual-Channel Combustible Gas Monitor**

**Description**

The Model 580A Controller is a two-channel system designed to continuously monitor for potential explosive concentrations of most combustible gases/vapors. The 580A consists of a controller plus two sensor assemblies. The sensors are monitored independently. The controller can be wall, panel or rack mounted in a non-hazardous area.

The system operates in the range of 0-100% LEL (Lower Explosive Limit) and is calibrated to a particular gas or vapor. User interfaces are provided so that the operator may interpret and direct the Model 580A in the performance of its various functions. User interfaces consist of a digital display, status indicators, a channel/select button, a mode button, and a reset button.

The system operates on 117 VAC, 50-60 Hz (optional 220 VAC, 50-60 Hz), or 24 VDC primary input power with the capability of 24 VDC battery backup. Nominal power consumption is 18 watts.

**Features**

- Continuous diffusion, electro-catalytic sensor
- High visibility LED status indicators
- Adjustment-free calibration
- Low power consumption
- Wide variety of relay options
- Two year warranty

**Benefits**

- Stable operation over wide ambient temperature and humidity ranges
- Provides visual indication of fault and alarm status at the detector location
- Lower calibration costs
- Lower operating costs
- Provides choice to meet specific customer requirements
- User protection

**Applications**

- Fuel Loading Facilities
- Compressor Stations
- LNG Processing and Storage
- Oil Well Logging
- Sewage Plants
- Gas Turbines
- Drilling Platforms and Rigs
- Gas and Oil Production Platforms
- Solvent Vapors
System Specifications

**Digital**
- Readout: 0-99% LEL

**Accuracy:**
- ±3% LEL ≤ 50% LEL gas
- 5% LEL > 50% LEL gas

**Electrical Classification:** General purpose for mounting in non-hazardous areas, indoors.

**Warranty:** Two years

**Approvals:** CSA

Environmental Specifications

**Temperature Range:** 32°F to 140°F (0°C to 60°C)

**Storage Temperature:** -4°F to 149°F (-20°C to 65°C)

**Humidity:** 15-95%, non-condensing

Mechanical Specifications

**Mounting:** Panel or wall

**Dimensions:** 2.1" W x 6.9" H x 11.5" D (53mmW x 175mmH x 292mmD)

**Weight:** 3.8 lbs. (1.8 kg)

Electrical Specifications

**Power:** 105-130 VAC (205-255 VAC optional), 50-60 Hz, 22-30 VDC, 9 watts nominal per channel (117 VAC)

**Alarm Circuits:** 4A/117 VAC, resistive

**LED Status Indicators:**
- SE - Sensor malfunction
- HI - High line voltage
- LO - Low line voltage

**Standard Configuration:**
- 580A-1-1-01-2
  - (110 VAC / 24 VDC, latch alarm, non-latch warn, de-energized, standard sensor, 2-active channels)

Sensor Specifications

**Type:** Continuous diffusion, low temperature catalytic bead. Standard Industrial Hydrocarbon Sensor. High Temperature Standard Industrial Hydrocarbon Sensor.

**Temperature Range:**
- -65°F to 200°F (-55°C to +93°C)
- High Temperature Sensor to 400°F (200°C)

**Response Time:**
- T50: typical 6-seconds

**Zero Drift:** Less than 5% per year

**Life:** 3 to 5 years, normal service

**Electrical Classification:**
- Class I, Division 1 and 2, Groups B, C and D

**Cable Length:** Three conductor cable. Maximum length of cable between controller and sensor assembly with loop resistance of 20 ohms NOTE: Shielded cable is recommended

**Wire Size**

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<th>AWG</th>
<th>Length (Meters)</th>
<th>Length (Feet)</th>
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**Warranty:** Two years

**Approvals:** CSA and/or FM

Specifications subject to change without notice.

Represented by:

Publication #: DS-580A-B0806