The evolution continues with the new X2200 UV Flame Detector. The X2200 is the most advanced UV detector meeting standards and approvals worldwide, combined with a superior mechanical design. The detector is equipped with automatic, manual and magnetic \( \text{oil} \) test capability. The detector has Division and Zone explosion-proof ratings and is suitable for use in a variety of applications.

The standard output configuration includes fire, fault and auxiliary relays. An optional 0 to 20 mA output with HART can be provided in addition to the three relays. A model with pulse output is available for easy retrofitting into existing Det-Tronics controller based systems. Auxiliary relay and 0 to 20 mA output are not available with the pulse model. A tricolor LED on the detector faceplate indicates normal condition and notifies personnel of fire alarm or fault conditions.

The X2200 housing is available in aluminum or stainless steel, with NEMA 4X and IP66 rating.

Typical applications include:
- Hydrogen storage
- Munitions
- Silane storage.

Features and Benefits:
- EM 54-10 Certified (VdS).
- ATEX Directive compliant.
- EQP models available.
- Advanced signal processing.
- Arc — unequaled false alarm rejection.
- HART models available.
- Responds to a fire in the presence of modulated blackbody radiation (i.e. heaters, ovens, turbines) without false alarm.
- High speed capability.
- Automatic, manual or magnetic optical integrity (\( \text{oil} \)) testing — no external test lamp required.
- Easily replaceable \( \text{oil} \) plate.
- Fire, fault and auxiliary relays standard.
- MODBUS RS-485 communication.
- 0 to 20 mA isolated output (optional).
- Pulse output for compatibility with controller based systems (optional).
- A tricolor LED on the detector faceplate indicates normal condition and notifies personnel of fire alarm or fault conditions.
- Mounting swivel allows easy sighting.
- Integral wiring compartment for ease of installation.
- Class A wiring per NFPA-72.
- Meets NFPA-33 response requirement for under 0.5 second (available when model selected).
- RFI and EMC Directive compliant.
- Built-in data logging / event monitoring.
### Specifications

**Operating Voltage** 24 Vdc. Operating range is 18 to 30 Vdc.

**Power Consumption** 2.5 watts @ 24 Vdc nominal. 76 watts @ 30 Vdc with EOL resistor installed.

**Relays** Contacts rated 5 amperes at 30 Vdc.

- **Fire Alarm:** — Form C (NO and NC contacts)  
  — normally de-energized  
  — latching/non-latching.

- **Fault:** — Form A (NO contacts)  
  — normally energized  
  — latching/non-latching.

- **Auxiliary:** — Form C (NO and NC contacts)  
  — normally energized  
  — latching/non-latching.

**Current Output** (Optional) 0–20 mA, with a maximum loop resistance of 500 ohms from 18–19.9 Vdc, 600 ohms from 20–30 Vdc.

**Temperature Range**
- **Operating:** -40°F to +167°F (-40°C to +75°C).
- **Storage:** -67°F to +185°F (-55°C to +85°C).

**Humidity Range** 0 to 95% relative humidity, can withstand 100% condensing humidity for short periods of time.

**Field of View** The X2200 has a 90 degree cone of vision with the highest sensitivity lying along its central axis.

**Warranty** 3 years.

**Enclosure Material** Copper-free aluminum or 316 stainless steel.

**Conduit Entry Size** 3/4 inch NPT or 25 mm.

**Shipping Weight** (Approximate) Aluminum: 6 pounds (2.75 kg). Stainless Steel: 10 pounds (4.5 kg).

**Response Characteristics**

<table>
<thead>
<tr>
<th>Fuel</th>
<th>Size</th>
<th>Distance Feet (m)</th>
<th>Typical Response Time (seconds)</th>
<th>Mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>n-Heptane</td>
<td>1 x 1 foot</td>
<td>85 (25.9)</td>
<td>3</td>
<td>Low Arc</td>
</tr>
<tr>
<td>Methane</td>
<td>32 inch plume</td>
<td>100 (30.5)</td>
<td>2</td>
<td>Low Arc</td>
</tr>
</tbody>
</table>

**NOTE:** Refer to the X2200 instruction manual 95-8549 for details regarding detector response.

*Auxiliary relay and 0 to 20 mA output are not available on pulse output model.

### Certification

- **Increased Safety Model**
  - Class I, Div. 1, Groups B, C & D (T5);
  - Class II, Div. 1, Groups E, F, & G (T5);
  - Class II, Div. 2, Groups A, B, C & D (T3);

- **IECEx Certificate of Conformity**
  - IECEx ULD 06.0018X
  - Ex d e IIC T5–T6 Gb
  - T6 (Tamb = -50°C to +60°C).
  - T5 (Tamb = -55°C to +75°C).

- **Fireproof Model**
  - Ex d IIC T5–T6 Gb
  - DEMKO 02 ATEX 132195X
  - T6 (Tamb = -50°C to +60°C).
  - T5 (Tamb = -55°C to +75°C).

- **Wiring Terminal Identification for Standard X2200**

**Dimensions** Dimensions shown in inches (centimeters).

**Wiring** 14 AWG (2.08 mm²) or 16 AWG (1.31 mm²) shielded cable is recommended.

**Detector Electronics Corporation**

Detector Electronics Corporation

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