



UDM

Universal Display Module



Performance Approved
to CSA Standards

Features

- Single or Dual Channel display
- Remote sensor separation
- Pass through 4-20 mA signal
- User friendly Universal interface across multiple brands of gas detection
- Epoxy painted explosion-proof 316 stainless steel enclosure
- Operating temperature: -40°C to +75°C
- UDM-002 combination of detectors can be LEL/H2S, LEL/LEL H2S/H2S, etc
- Remote calibration of gas sensor
- Toggle channel display on or off
- Field replaceable UV protected OLED display
- Active display to optimize long life OLED's
- Made in Canada, built to withstand Canadian weather
- Smart sensor technology (Auto configuration)
- Performance tested to CSA C22.2 No.152
- Certified by INTL to Canadian and US Standards
- Conformal coated electronics
- Zone 2 NO SEALS REQUIRED and Zone 1 seals required
- Captive thumb screws for ease of installation
- 2 Year Warranty
- Low power consumption
- Digital connection to sensor module

Applications

The Protek Universal Display Modules are engineered to be compatible with various brands of gas detection systems. By leveraging smart sensor technology, they automatically configure to any approved sensor manufacture when connected to the single or dual-channel display modules.

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| • Petrochemical | • Pulp and Paper |
| • Medical | • Wastewater / Water Treatment |
| • Semi Conductor | • Compressor stations |
| • Mining | • Pharmaceutical |
| • LNG/LPG processing and storage facilities | • Refrigeration |
| • Fertilizer | • Chemical |

Operation / Description

The Universal Display Module is a single or dual channel display module designed to provide a local or remote display for Gas Detection Sensors. Allowing for a user-friendly interface, remote communication, and readout with up to 2 gas detection sensor heads. This display module offers universal compatibility with various gas detection brands, enabling users to maintain a consistent interface while employing the most suitable or advance technology from compatible systems for each specific application.

The UDM display is designed to allow the 4-20 mA signal from the gas detector to pass through without any interference or signal alteration. It serves as a digital signal "Master" for the connected gas detector(s), providing a readout of the gas concentration while also acting as an interface for accessing the detector's menu for calibration and parameter configurations.

Specifications

Model: Universal Display Module | UDM-001 & UDM-002

Inputs:

SEC Millennium & Millenium Hawk Series Detectors
SEC 3000 Series Detectors
Detcon Model 700 Gas Detectors

*Detector Models to be verified for functionality at time of quote

Electrical Classification:

Certified to Canadian and U.S. Standards
Class 1, Division 1, Groups B, C, D, T4 (Seals required)
Ex db IIB T4 Gb (Seals required)
Class 1, Zone 1 AEx db IIB T4 Gb (Seal required)
Class 1, Division 2, Group A, B, C, D, T4 (No seals required)
Conforms to CSA C22.2 No.152 M(1984) R2016
Conforms to CSA C22.2 No. 60079-29-1:17A1:22 (R2022)
Conforms to UL 60079-29-1 Ed: 2



Environment Enclosure Classification:

NEMA 4X, IP66/67

Outputs:

Single Channel: 4-20 mA (3 wire device configuration)
Dual Channel: 2x 4-20 mA (4 wire device configuration)

Input Voltage:

10.5-30 VDC (Determined by voltage of attached detectors)

Operating Voltage:

24 VDC – Operating range: 8 to 32 VDC measured at the detector head

Power Consumption:

<0.5 Watts at 24 VDC (normal)
(excluding attached gas sensors)

Display Type	Channels	Part Number	Operating Temp	Warranty Period
Single Channel	1	UDM-001	-40°C to 75°C	2 Year
Dual Channel	2	UDM-002	-40°C to 75°C	2 Year
Sensor Separation Kit	N/A	UNV-SEPKIT-001	-40°C to 75°C	2 Year
-55°C Sensor Separation Kit	N/A	UNV-SEPKIT-004	-55°C to 75°C	2 Year

