

UDM-MWO

Universal Display Module Multi Wire Option





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: -55°C to +75°C
- Dual Display 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 and certified to CSA C22.2 No.152
- Certified by INTL to CDN and US Standards
- Conformal coated electronics
- Zone 2 NO SEALS REQUIRED and Zone 1 seals required
- Captive thumb screws for ease of instillation
- Digital connection to sensor module
- Low power consumption
- Certified 2 & 3 Wire Retro Fit Solution
- Optional Relays Available

Applications

The **Protek Universal Display Module; Multi-Wire Option** is designed as a plug-and-play retrofit solution for any outdated and discontinued 2- and 3-wire gas detector units. This feature enables you to upgrade older infrastructure without extensive rework, saving you time, money, and reducing waste.

- Petrochemical
- Medical
- Semi Conductor
- Mining
- LNG/LPG processing and storage facilities
- Fertilizer

- Pulp and Paper
- Wastewater / Water Treatment
- Compressor stations
- Pharmaceutical
- Refrigeration
- Chemical

Operation / Description

The Universal Display Module: Multi-Wire Option is a retrofit solution designed to replace old 2- or 3-wire gas detectors that have become outdated or discontinued. It provides compatibility across various gas detection brands, enabling users to work with a consistent interface while selecting the best technology among compatible systems. The UDM-MWO module allows the 4-20 mA signal from the attached 3 wire gas detector to pass through unaltered, without interruption or signal recreation. The UDM-MWO permits you to upgrade your gas decection to modern technology while not requiring you to break seals or pull additional wires in your currently installed conduit.

The UDM-MWO serves as a digital signal master, interfacing with gas detectors to display real-time gas concentration data from remote mounted gas detection sensors. Its user-friendly design also facilitates remote calibration and parameter configuration. This flexibility makes the UDM-MWO an efficient solution for modernizing older gas detection infrastructure.

Specifications

Model: Universal Display Module Multi Wire Option | UDM-MWO-001 & UDM-MWO-002

Inputs:

Sensor Electronics Millenium Series Detectors Sensor Electronics 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: 4-20mA (3 wire device configuration) Dual Channel: 2x 4-20mA (4 wire device configuration) Optional Relays Rated for 5 A @ 30 VDC / 250 VAC: Single Channel: 3 x Form C (Alarm, SD & Fault)

Dual Channel: 4 x Form C (Alarm 1, Alarm 2, SD & Fault)

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 Analog Only	1	UDM-MWO-001-A	-55°C to 75°C	2 Year
Dual Channel Analog Only	2	UDM-MWO-002-A	-55°C to 75°C	2 Year
Single Channel Analog & Relay	1	UDM-MWO-001-AR	-55°C to 75°C	2 Year
Dual Channel Analog & Relay	2	UDM-MWO-002-AR	-55°C to 75°C	2 Year
2-3 Wire Retro Fit Sensor Separation Kit	N/A	UDM-MWO-SEPKIT	-55°C to 75°C	2 Year
Sensor Separation Kit	N/A	UNV-SEPKIT-004	-55°C to 75°C	2 Year



