

Features

- Maintenance-free operation
- 12 or 24 V DC operation
- Connects to Class A or Class B Initiating Circuit
- Self-supervised with trouble output
- LED status indicator
- Alarm relay sealed for spark protection
- Automatic reset on return to normal conditions
- Provides N.O. alarm contacts
- Mounts to 4 x 4 electrical backbox

Description

The D382 is a detector of combustible heating gases such as propane and natural gas. It is rated by Underwriters Laboratories to alarm below 25% of the Lower Explosion Level (LEL) of propane or methane.

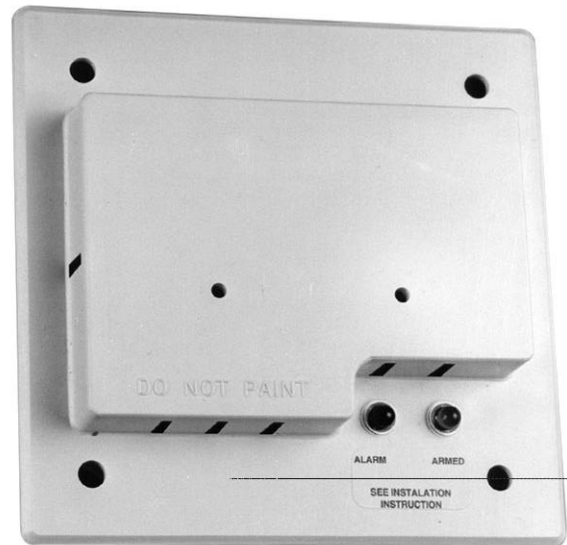
System power to the D382 may be 12 or 24 V DC. It passes through the full wave rectifier, making the D382 independent of input power polarity

The detector is self-supervised and indicates a trouble by a distinctive LED display coupled with activation of a N.C. relay.

The D382 uses a maintenance-free self-purging sensor with a life expectancy of seven to 10 years.

Application

The D382 is a combustible gas detector for use in non-hazardous locations such as residences, retail stores, office buildings, and institutional buildings. It is not intended for use in industrial locations such as factories, refineries, and chemical plants.



The D382 is usually installed in rooms where gas appliances are located or in rooms that are susceptible to gas seepage. Installations in bathrooms or kitchens can result in false alarms, and should be avoided.

Installation

The D382 must be installed in a separate circuit or zone reserved for combustible gas detectors and may not be combined with smoke, fire, or intrusion detectors. Alarms for this circuit or zone must activate audible notification appliances of at least 85 decibels with a distinctive sound for gas detection.

Each detector is capable of supervising an area of approximately 900 square feet. In larger areas, space the detectors on 30 foot centers.

Mount the D382 one foot from the floor or one foot from the ceiling, depending on the targeted gas. Natural gas is lighter than air and will collect at the ceiling. Bottle gas (propane) is heavier than air and will collect on the floor. Mount at least six inches from corners to avoid the dead air space.

The D382 mounts to a standard four-inch square backbox.

Specifications

Model Number	D382
Operating Voltage	12 or 24 V DC
Operating Current	120 mA @ 12 V DC 60 mA @ 24 V DC
Alarm Relay Configuration	N.O
Alarm Relay Rating	0.5 A, 200 V, 10 VA
Trouble Relay Configuration	N.C.
Trouble Relay Rating	0.5A, 200 V, 10 VA
Alarm Set Point	Below 25% of Lower Explosion Limit (LEL) (Propane or Methane)
Operating Temperature	32°F to 120°F
Mounting (Customer-supplied)	Std. 4 x 4 Electrical Box
Size	4-1/2" x 4-1/2" x 2"
Color	Off White
Shipping Weight	1 lb.

Dimensions

Depth: 2"
Width: 4 - 1/2"
Height: 4 - 1/2"

Listings and Approvals

- Underwriters Laboratories
- For UL-listed applications, the D382 must be used with a UL-listed Critical Process Management Control Panel having between 12 and 24 V DC initiating device supply circuits.

Ordering Information

Model	Description
D382	Combustible Gas Detector

D382 Wiring

