



**Continuously monitor for potential leaks
in the vent lines of refrigeration systems**

Manning VL vent line leak detector



Beneficial Features

- Improves personnel, product and equipment safety
- Extremely reliable sensor assembly
- Easy to calibrate and adjust
- Simple to install
- Continuous monitoring
- Can potentially lower insurance rates
- Input directly to central alarm systems
- Linear 4/20 mA output

The Manning Vent Line sensor continuously monitors vent line headers for ammonia and fluorocarbons.

The Manning Vent Line (VL) is designed to continuously monitor for high concentrations of ammonia or fluorocarbons in vent lines of refrigeration systems.

High concentrations of refrigerant gases in vent lines are warnings of system overpressure or leaking relief valves. Either can pose danger to employees and equipment. Wasted refrigerants are costly and can mean overtime labor and plant downtime.

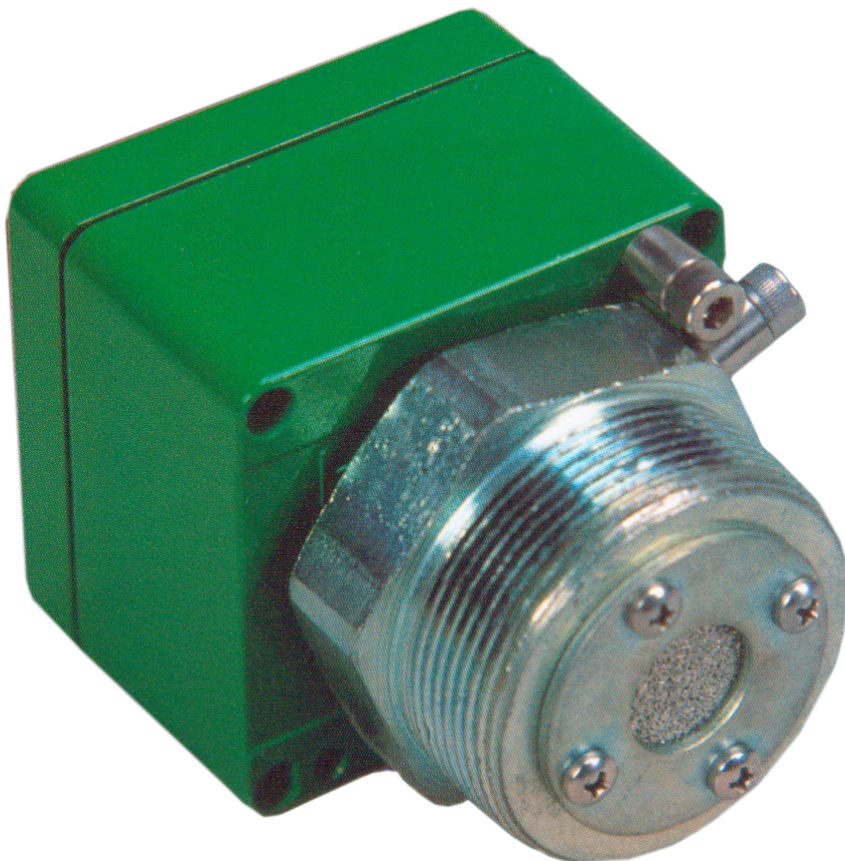
Designed to be installed in refrigeration vent lines, the VL sensor is supplied with a 2" cast steel "T", plug and nipple.

The sensor is embedded in a 2" forged steel bull plug and houses a four-point terminal strip for electrically connecting the sensor and pre-amp. The linear 4/20 mA output pre-amp is housed in a separate enclosure.

The Manning Vent Line leak detector is designed to be electrically connected to and monitored by all Honeywell Analytics readouts or can send a signal directly to a PLC.

Applications

- Ammonia or Fluorocarbon Monitoring of Refrigeration System Vent Lines
- Equipment Rooms
- Refrigeration Systems



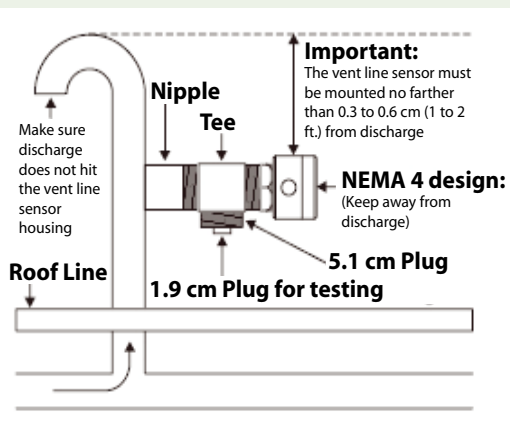
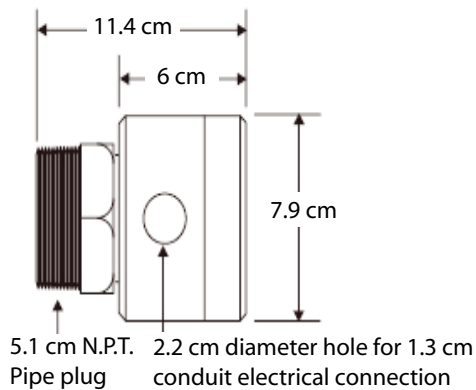
Technical summary



General Specifications

Applications	Ammonia or fluorocarbon monitoring of refrigeration system vent lines
Method	Solid state
Range	Ammonia 0 to 10,000 ppm (1%) CFC/HCFC/HFC's 0 to 1,000 ppm (depending on refrigerant)
Output	Linear 4/20 mA, connects to all Honeywell Analytics readouts or other devices capable of accepting a 4/20 mA signal
Power Requirements	Powered directly from Honeywell Analytics readouts or, when used as 4/20 mA pre-amp and sensor only, requires 17/24 VDC at 200 mA
Operating Temperature	-29° to 49° Celsius (20° to 120° Fahrenheit)
Enclosures	Sensor-Aluminum NEMA 4 Pre-amp-Stainless Steel NEMA 4
Weight	1.4 kg (3lbs.), sensor only 6.8 kg (15 lbs.), with mounting kit
Dimensions	Sensor, 11.4 cm x 9.8 cm x 9.8 cm (4 1/2 in. x 3 1/8 in. x 3 1/8 in.)
Cable Requirements	Pre-amp to readout--#18/3 shielded cable (Belden #8870), maximum run length 457 m (1,500 ft.) Sensor to pre-amp-#16 AWG, 4 conductors, non-shielded for runs up to 7.6 m (25 ft.)

Dimensions and Best Mounting Locations for Vent Line Sensors Discharging to the Atmosphere



Caution: Always assume that a relief valve has the potential to release at any moment. To ensure the safe installation of a Vent Line sensor, make certain that you are accompanied by another person and you are using protective eyewear. Be sure to use gloves and keep other safety devices including eye flushing equipment and a breathing apparatus nearby. Personnel should be well-trained and protected if a sudden refrigerant releases causes a fall. Make certain that you have an escape route in the event of a refrigeration release.

Honeywell Analytics Lines of Business



Commercial

Vulcain-brand gas detection from stand-alone units to fully engineered, multi-point systems, all offering cost-effective regulatory compliance

- » Applications: parking structures, chillers, mechanical rooms, office towers, commercial buildings, shopping centers, swimming pools, golf courses, schools and universities, laboratories

Find out more

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Industrial

Renowned Sieger and Manning gas detection systems with advanced electrochemical, infrared and open path sensing technologies

- » Applications: oil and gas, cold storage, water/wastewater treatment, chemicals, engine rooms, plastics and fibers, agriculture, printing and light industrial



High Tech/Government

A complete portfolio of gas and chemical detection instrumentation including infrared spectroscopy (MST) with no cross interference, to Chemcassette paper-based solutions (MDA Scientific) offering detection down to parts per billion

- » Applications: semiconductor manufacturing and nanotechnology, aerospace propulsion and safety, specialty chemicals industry, research laboratories, emergency response

Europe, Middle East, Africa

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Portables

Single or multi-gas Lumidor and other premium detectors with compact, lightweight designs ranging from simple alarm only units to advanced, fully configurable and serviceable instruments

- » Applications: underground utility and electricity ducts, boiler rooms, post-fire sites, sewers, industrial plants, industrial hygiene, first responder teams, remote fleets



Technical Services

24/7 global network includes post-sales service and Systems Integration teams

- » Emergency call out, service contracts, on/off-site repair, training and commissioning
- » Complete range of spares, consumables and accessories

Asia Pacific

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