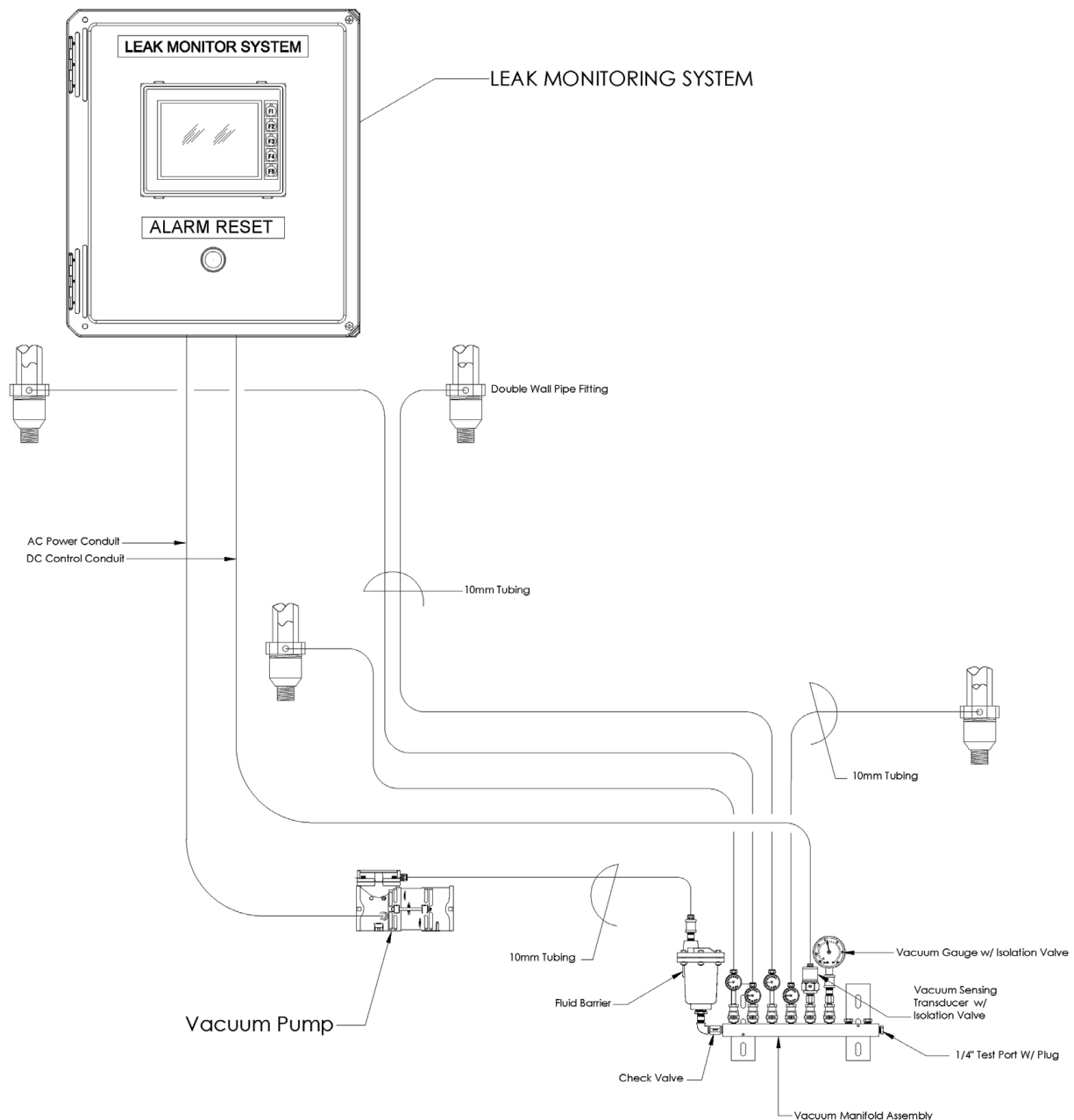


SafeSite Leak Monitoring System Installation Manual



Leak Monitoring System Installation

GENERAL

- (1) The LMS System should be certified by a qualified and trained technicians.
- (2) The installer must follow the relevant manufacturers' instructions for properly installing the tanks and/or piping having the interstitial that will be monitored by the LMS System.
- (3) Start-up must be carried out by a qualified and trained company.
- (4) Follow the NEC and all relevant regulations for electrical installations.
- (5) Follow all OSHA regulations related to safety prior to starting any work.
- (6) Pneumatic connections, connection tubing and fittings must be able to withstand the pressure which could occur in the case of a leak for the full applicable temperature range.
- (7) Before any personnel enters underground sumps (if applicable), the oxygen level must be checked and the area ventilated if necessary. Follow all relevant confined space regulations.

MOUNTING THE CONTROL PANEL

The control panel is housed in a NEMA 4X (weather tight) enclosure for mounting in the non-hazardous area. The panel should be installed as follows:

- (1) Wall mounting, within a building.
- (2) Wall mounting outside, in the non-hazardous area
- (3) Panel may be ordered pre-mounted to a rack system including the manifold. This rack can be installed outside or inside, in the non-hazardous area.
- (4) Panel and vacuum manifold assembly should be installed as near to the tank and/or piping being monitored as possible.

MOUNTING THE (PNEUMATIC) CONNECTION TUBING

- (1) 50-Feet of 10mm Tubing is supplied with the LMS system; alternatively, all tubing should be made of a plastic or metal that is resistant to the product being stored in the piping or tanks. Contact a manufacturers' representative for acceptability of alternate products.
- (2) The clearance between tubes should be at least 1/4-inch.
- (3) Tubing should be installed as depicted in the system drawings. Note: the distance between the tubing connected to the interstitial space and the LMS manifold should not exceed 300-feet.
- (4) Route tubing sloped toward the LMS manifold and avoid traps in the tubing.
- (5) Conduits for connection tubing should be sealed, gas and liquid tight, at the inlet and outlet connections.

WIRING THE LEAK MONITORING SYSTEM

The LMS wiring should be performed by a certified electrician who has reviewed the wiring diagrams provided by the manufacturer and can be found inside the control panel.

- (1) The LMS control panel requires 120 VAC, 10 Amp incoming feed (standard)
- (2) The LMS vacuum pump or compressor must be wired to the control panel as shown on the wiring diagram (standard)
- (3) The pressure/vacuum transducer must be wired to the control panel as shown on the wiring diagram (standard)
- (4) The general summary alarm should be wired from the control panel to the BMS as required by the facility (standard)
- (5) Optional wiring as shown on the wiring diagram should be completed as required and include: remote pump dry contact, solenoid valve and a permissive signal for a separate pump/dispensing system.

Contact a factory authorized representative for assistance.

