Critical Environment Technologies™

AMMONIA (NH_3) GAS DETECTION EQUIPMENT

GAS DETECTORS



LPT Low Power Analog Transmitter
» NH_3 electrochemical sensor range: 0 to 500 ppm
» 4 - 20 mA output
» LED Indicator
» 2-wire loop, 3-wire VDC or 4-wire VAC



Analog or Digital CGAS Detector Transmitter
» NH_3 electrochemical sensor range: 0 to 500 ppm or NH_3 catalytic sensor range: 0 to 3% Vol
» Analog model: 4 - 20 mA analog output, 3-wire VDC or 4-wire VAC
» Digital model: Modbus® RS-485 or BACnet® MS/TP output (field configurable) 4-wire VAC/VDC
» LCD display, optional 2-amp SPDT relay, optional low temperature operaton



CGAS-A-VLT Vent Line Ammonia Transmitter
» Single channel (analog), 4 - 20 mA output
» NH_3 catalytic sensor range: 0 to 3.00% vol / 30,000 ppm
» LCD display, optional 2-amp SPDT relay, optional low temperature operaton



CXT2 Explosion-Proof Transmitter
» NH_3 electrochemical sensor range: 0 to 500 ppm
» 4 - 20 mA analog output or Modbus® RS-485 output
» Three 5A relays (digital model), large colour, backlit LCD
» Optional heater for low temperature operation
» Class 1, Div 1 & 2, Groups A, B, C, D

CONTROLLERS



FCS Flexible Control System - up to 128 channels
» Four 5A SPDT relays, audible alarm, resistive touch LCD colour display, extensive menu, priorities zoning and logic control, data logging, optional top mounted strobe
» Modbus® RS-485 output or BACnet® MS/TP output for communication with a Building Automation System (BAS)
» 90 - 240 AC line voltage power supply



DCC Self-Contained Controller
» 4 - 20 mA connection to NH3 remote sensor of choice
» Two 5A SPDT relays, audible alarm, LCD display with LED indicators, two 4 - 20 mA outputs, jumper configurable 0 - 10V or 2 - 10V output
» 90 - 240 VAC line voltage or 24 VAC/VDC low voltage power supply

- **24 hour continuous monitoring of Ammonia**
- **Visual and audible alarm response on or at 25 ppm**
- **Visual display of gas level readings outside the room**
- **Automatic triggering of the ventilation system**
- **Shut off equipment from outside the chiller room**

INSTALL the gas detector on or near the ceiling where the gas is most likely to concentrate. Ammonia in normal air conditions is lighter than air and will rise as high as it can. Typically one gas detector covers approx. 465 m² / 5,000 ft² (varies on size of room and location of equipment).

BUMP TESTING should be done as part of the monthly maintenance plan of the system. If a bump test fails, do a full calibration.

CALIBRATION should be done every 6 months, at minimum.

REMEMBER that constant exposure to high range levels of Ammonia and/or even one very high concentration event can poison the sensor and render it useless.

ALSO AVAILABLE:

RDM Remote Display
Provides convenient viewing of gas level readings at a secondary location

Calibration Kit
Common tools required for field calibration in a durable, plastic carrying case

QC-50 NH3 Gas Bump Tester
Hand aspirated bulb bump test system for ammonia gas detectors

QC-100 NH3 Gas Bump Tester
Battery powered bump test system for ammonia gas detectors

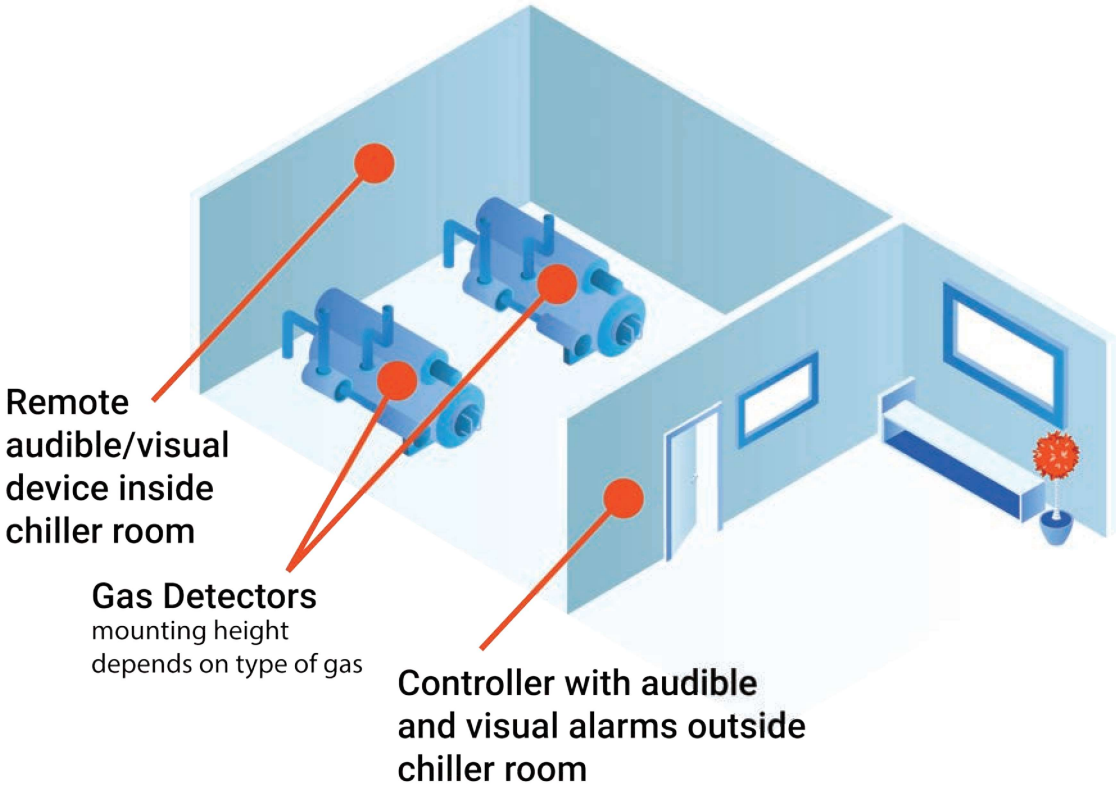
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AMMONIA SAFETY

AND REFRIGERANT LEAK DETECTION



Continuous monitoring of Ammonia (NH3) & Refrigerants
in chiller / mechanical rooms



for human health and safety and the protection of property

CSA B52, ASHRAE 15 and 34, EN 378