

# AMMONIA (NH<sub>3</sub>) GAS DETECTION EQUIPMENT

## GAS DETECTORS



### LPT Low Power Analog Transmitter

- » Single channel
- » LED Indicator
- » NH<sub>3</sub> electrochemical sensor range: 0 to 500 ppm
- » 4 - 20 mA output signal
- » 2-wire loop, 3-wire VDC or 4-wire VAC



### LPT-A Analog Transmitter

- » Single channel
- » NH<sub>3</sub> electrochemical sensor range: 0 to 500 ppm
- » One 2-amp SPDT relay, audible alarm, LCD display
- » 4 - 20 mA or 0 - 10 VDC output signal
- » 3-wire VDC or 4-wire VAC/VDC



### Analog or Digital CGAS Detector Transmitter

- » Single channel (analog), up to 2 channels (digital)
- » NH<sub>3</sub> electrochemical sensor range: 0 to 500 ppm
- » 4 - 20 mA analog output
- » Modbus® RS-485 or BACnet® MS/TP output signal
- » LCD display, optional 2-amp SPDT relay
- » 4-wire VAC/VDC



### LPT-A-VLT Vent Line Ammonia Transmitter

- » Single channel
- » NH<sub>3</sub> catalytic sensor range: 0 to 3.00% vol / 30,000 ppm
- » One 2-amp SPDT relay, audible alarm, LCD display
- » 4 - 20 mA or 0 - 10 VDC output signal
- » 3-wire VDC or 4-wire VAC



### CXT2 Explosion-Proof Transmitter

- » Single channel
- » NH<sub>3</sub> 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 NH<sub>3</sub> 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 AC line 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 m<sup>2</sup> / 5,000 ft<sup>2</sup> (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 NH<sub>3</sub> Gas Bump Tester

Hand aspirated bulb bump test system for ammonia gas detectors

#### QC-100 NH<sub>3</sub> Gas Bump Tester

Battery powered bump test system for ammonia gas detectors



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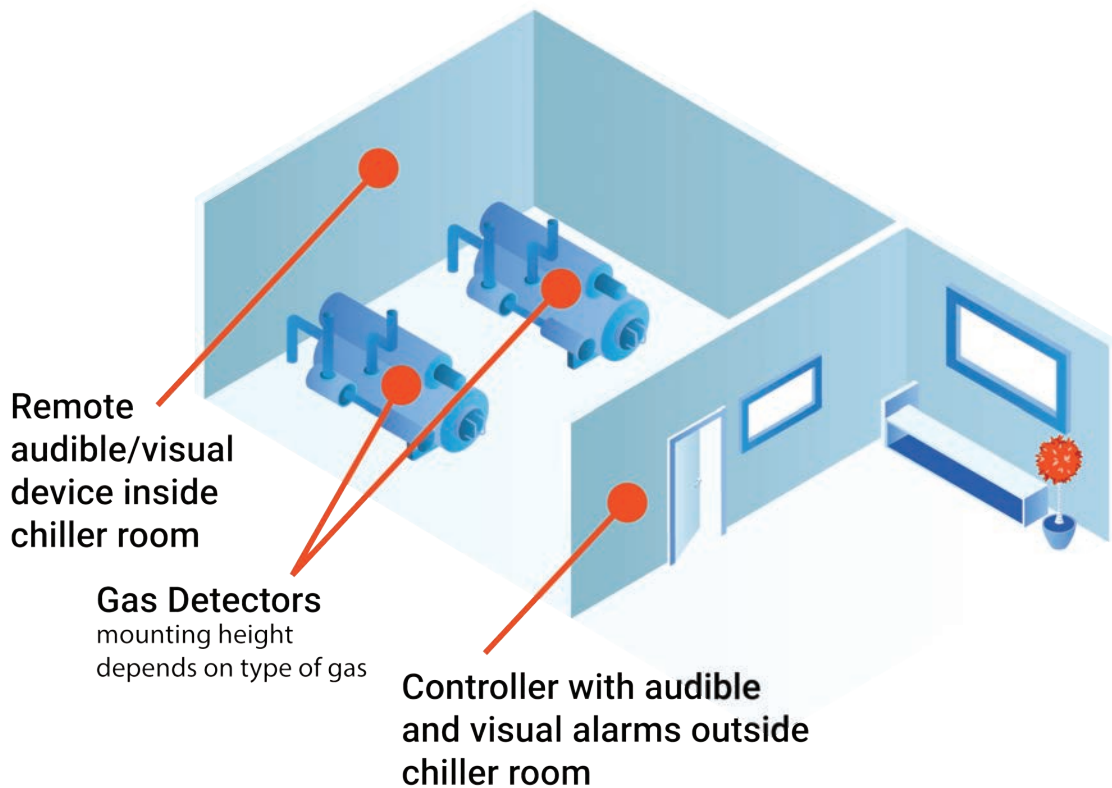
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# AMMONIA SAFETY

## AND REFRIGERANT LEAK DETECTION



Continuous monitoring of Ammonia (NH<sub>3</sub>) & Refrigerants  
in chiller / mechanical rooms



for human health and safety and the protection of property

CSA B52, ASHRAE 15 and 34, EN 378