

Digital Central Supervisory Alarm Panel

COOL AIR
INCORPORATED



32-detector unit

A dependable, time-saving system for single-location monitoring of remote ammonia leak detectors

Standard features

The Cool Air Incorporated Digital Central Supervisory Alarm Panel is designed to monitor up to 32 Ammonia Leak Detectors, providing a central alarm and monitoring location as well as communicating the status of all connected Leak Detectors via a standard field bus (when optionally equipped).

The panel comes with these standard features:

- Digital display showing the concentration level of connected ammonia detectors (LBW-420 only)
- Audible and visible warnings of excess leak levels at any connected Ammonia Leak Detector
- Normally-open, normally-closed contacts for communicating a common alarm to industry alarm systems
- NEMA 4X, UL-listed enclosure with high quality, UL listed components

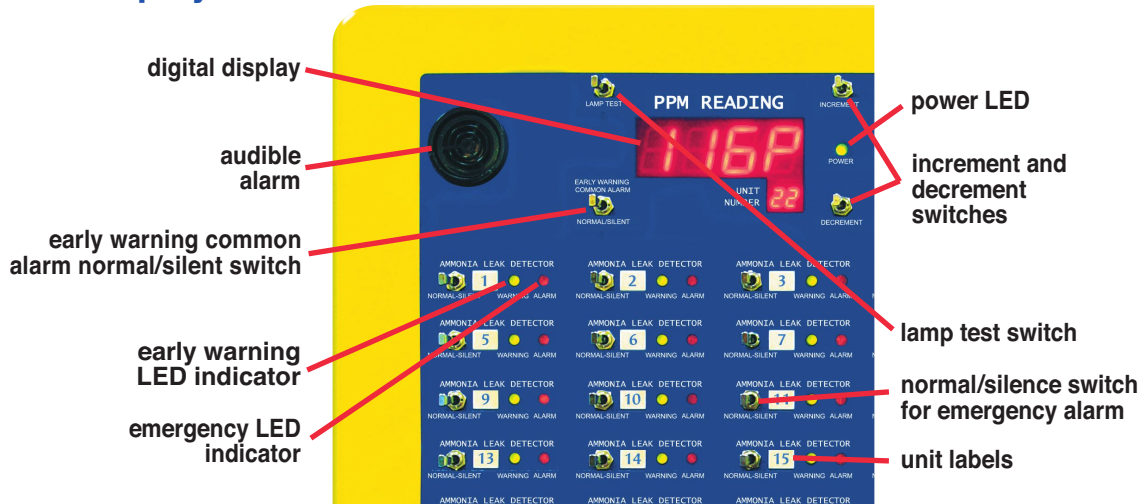


Additional features

- Affordable
- One year warranty
- Virtually maintenance free
- Optional fieldbus to communicate status and ammonia concentration levels to connected building monitoring equipment
- Accepts 4-20 mA analog input

Digital Central Supervisory Alarm Panel for Ammonia Leak Detectors

Front Panel Display



Digital Central Supervisory Alarm Panel Specifications

Display	0.8", 7-segment LED, 4-digit ppm indicator 0.3", 7-segment LED, 2-digit unit indicator
Controls	Lamp test momentary toggle switch Common warning silence switch Increment and decrement channel momentary toggle switches Alarm silence toggle switch for each channel
Relays	Alarm and pre-alarm, 5A, form C (SPDT), normally-open, normally-closed, energized in normal (non-alarm or warning) state
Outputs	Contacts for alarm and pre-alarm
Operating temperature	-50°F to 125°F
Operating humidity	5% to 95% RH, non-condensing
Power requirements	115/230 VAC, 50/60 Hz, single phase
Sensitivity	As determined by trip point settings at remote detectors, adjustable from 25 ppm to 800 ppm concentration of NH ₃ .
Dimensions	32 channel model: 14"H x 12"W x 16"D
Weight	15 lbs.
Enclosure	NEMA 4X rated, UL listed
Options	Optional fieldbus connection (see list of supported models at right)

Sequence of Operation

The Digital Central Supervisory Alarm Panel is designed to monitor the required number of field sensors from remote ammonia leak detectors. If a remote detector detects a concentration of ammonia exceeding the pre-set level (adjustable from 25 ppm to 800 ppm concentration of NH₃), it will close a dry contact which sends an alarm signal to the Digital Central Supervisory Alarm Panel. The remote units can be wired to send an audible alarm signal to the Central Panel at both the "early warning" and "emergency alarm" stages of ammonia concentration.

Available Fieldbus Models

The Digital Central Supervisory Alarm Panel supports the following fieldbuses:

ControlNet
Ethernet /IP
Modbus RTU
Modbus TCP
others available

Warranty

12 months warranty on workmanship from point of sale.

Cool Air reserves the right to make changes in the design of this unit without notification.

Dimensions given here are approximate and should not be used for construction planning.

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