



# Digital Central Supervisory Alarm Panel

Model DCSAP-8, 16, 24, or 32



## 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 (DCSAP) is designed to monitor 8, 16, 24 or 32 Ammonia Leak Detectors from a central location. Each detector's Early Warning (low alarm) and Alarm (high alarm) status are individually indicated on the panel. If the 4-20mA output of a LBW-420/420-1 is wired into the same individual zone, the ammonia concentration (in PPM) will be displayed on the LED display of the DCSAP.

The panel comes with these standard features:

- Digital display showing the concentration level of connected ammonia detectors (LBW- 420/420-1 only).
- Audible and visible warnings of excess ammonia concentration levels from any connected leak detector.
- Normally-open, normally-closed central relay contacts for Early Warning and Alarm to wire into an automation and/or alarm monitoring system.
- Custom safety yellow, NEMA 4X, UL-listed enclosure with high quality, UL listed components.

### These essential features in one central panel:

- Affordable.
- Dependable.
- Maintenance free.
- Each DCSAP zone accepts a 4-20 mA analog input and/or relay inputs from each individual leak detector.
- Six independent ranges (0-100, 0-250, 0-400 std., 0-500, 0-800, 0-1000) can be configured per unit/zone.
- Common, independent relays for Early Warning & Alarm for wiring into an automation and/or alarm system.
- Optional fieldbus to communicate status and ammonia concentration levels to connected building monitoring equipment.
- Standard 36-month limited warranty.
- Made in the USA.

# Digital Central Supervisory Alarm Panel for Ammonia Leak Detectors Model DCSAP-8, 16, 24, or 32 Guide Specifications

## Specifications

**Display:** 0.8", 7-segment LED, 4-digit PPM indicator;  
0.3", 7-segment LED, 2-digit unit/zone indicator

**Ranges:** 0-100, 0-250, 0-400 (std.), 0-500, 0-800,  
0-1000

**Controls:** All lamp momentary toggle switch; Early Warning Common Alarm Normal/Silent toggle switch; Increment & Decrement toggle switches; unit/zone Alarm Normal/Silent toggle switch; 'Teach' pushbutton.

**Relays:** Qty. (2) 5A, form C (SPDT), normally-open, normally-closed; Early Warning (low alarm), & Alarm (high alarm), common relays; Normal mode: energized in normally-open/closed state.

**Outputs:** Isolated dry-contacts for: Early Warning & Alarm common relays.

**Operating temperature:** -50°F to 125°F

**Operating humidity:** 5% to 95% RH, noncondensing  
Power requirements: 115/230 VAC, 50/60 Hz  
Outside Dimensions: 15 1/2" H x 13 1/2" W x 6 1/4"  
D Weight: DCSAP-8 (11 lbs.), -16 (11.5 lbs.), -24 (12 lbs.), -32 (12.5 lbs.)

**Note:** All dimensions and weights are approximate and should not be used for installation planning purposes.

**Enclosure:** Custom safety yellow, NEMA 4X rated, UL listed, CSA, IEC, IP66, with stainless-steel hasps.

### Options:

- Fieldbus communication card
  - ControlNet
  - Ethernet/IP
  - Modbus RTU
  - Modbus TCP

## Suggested Specifications Text

Digital Central Supervisory Alarm Panel for Ammonia (NH<sub>3</sub>) Leak Detectors

Provide Digital Central Supervisory Alarm Panel for ammonia leak detectors, model DCSAP-8, 16, 24, or 32, as manufactured by Cool Air Incorporated, Ham Lake, Minnesota.

Digital Central Supervisory Alarm Panel shall be wall-mounted, have a solid-state instrument panel, and capable of monitoring up to 32 ammonia leak detectors.

Digital Central Supervisory Alarm Panel shall contain no radioactive materials.

Digital Central Supervisory Alarm Panel shall have individual common Early Warning and Alarm relays, front-panel LED for each individual unit/zone Early Warning & Alarm, and individual unit/zone PPM display (for LBW-420/420-1 detectors only).

Digital Central Supervisory Alarm Panel shall be capable of initiating a supervised alarm, resulting in corrective action.

Optional fieldbus communication card shall be available from the central panel manufacturer.

Power supply shall be 115/230 VAC, 50/60 Hz.

Digital Central Supervisory Alarm Panel shall be manufactured in the USA.

## Warranty

The DCSAP comes with a 36-month limited warranty on workmanship from the time of shipment. Optional 60-month warranty is available if DCSAP is purchased in conjunction with Cool Air Incorporated ammonia leak detectors at time of sale.

Cool Air Incorporated reserves the right to make changes in the design without notification.



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