

## Intelligent CO / Low Frequency (520Hz for sleeping areas) Sounder Base

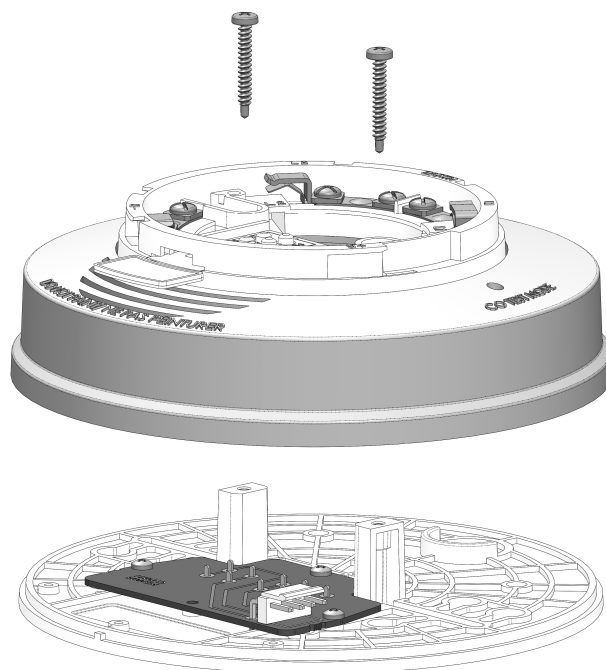
The Intelligent CO / Low Frequency Sounder Base (45681-805ADV) is an analog/addressable combination carbon monoxide (CO) detector and low frequency 520Hz sounder base for use with Advanced fire alarm control panels. In addition to carbon monoxide monitoring, the CO / low frequency sounder base can accommodate any Advanced intelligent smoke, heat or multi-sensor detector. For stand-alone CO detection applications a blank low profile cover is available (45681-292).

The built in low frequency 520Hz sounder of the Intelligent CO / Low Frequency Sounder Base can provide both a 520Hz temporal 3 (fire alarm event [via installed detector]) and 520Hz temporal 4 (CO event) signal, with the temporal 3 having the highest priority. The low frequency sounder base portion of the Intelligent CO / Low Frequency Sounder Base requires a separate regulated 24VDC supply. The separate 24VDC supply, can be from an Axis AX Notification Appliance Circuit (NAC) or from a Listed, supervised, power supply.

Based on low frequency sounder base applications, various methods are available for full system-wide synchronization of both the temporal 3 and temporal 4 signals. Synchronization of the low frequency sounders can be based on Apollo, Gentex, Cooper Wheelock or System Sensor protocols. By utilizing a notification appliance circuit programmed with a unique manufacturer's protocol, low frequency sounders can be synchronized with system-wide installed A/V devices.

The CO sensor of the Intelligent CO / Low Frequency Sounder Base is an electrochemical sensor that can be programmed to detect four levels of carbon monoxide and has a life of approximately six years, in normal environmental conditions. The CO sensor is fully supervised and provides a signal for field replacement at the end of its life cycle. Without removing the base from the ceiling, the CO sensor module (45681-801) can be replaced by simply unplugging the expired module and plugging in a new one.

The Intelligent CO / Low Frequency Sounder Base is individually addressed utilizing segments 1-7 of an integral DIP switch. In addition, the optional intelligent smoke, heat, or multi-sensor detector is individually addressed through the base, by a patented address ("XPerT") card. The address is quickly and easily set by removing "pips" on the XPerT card according to a chart supplied with each base.



### Features

- UL 2075 / 2034 and OSHA IAQ CO Monitoring Levels
- Automatic & Manual CO Sensor Testing
- 520Hz Sounder with/Temporal 3 & 4 Signaling
- Sub-Address Control of Low Frequency Sounder
- Full System-Wide Sounder Synchronization
- Sounder Synchronization with NAC A/V Devices
- Four (4) Programmable CO Detection Levels
- Field Replaceable CO Sensor
- 6-yr CO Sensor Lifespan w/Replacement Signal
- Integral Status LED

### Listings

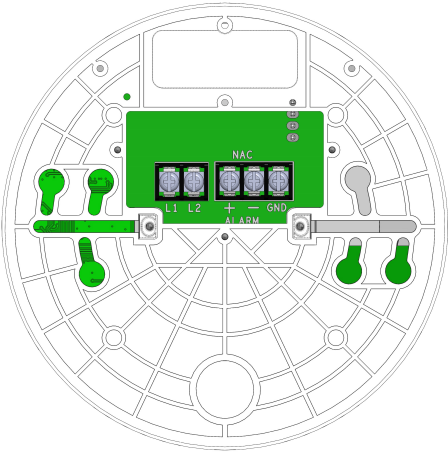
- UL-268, ULC-S529 (UROX, UROXC)
- UL-464, ULC-S525 (ULSZ, ULSZC)
- UL-2075 (FTAM)
- CSA6.19 (FTAMC)

In addition to an automatic daily test of the CO sensor by the fire alarm control panel, the CO sensor can be manually tested from the fire alarm control panel or locally via an on-board test button. When testing locally, via the on-board test button, spraying CO test gas through its outer edge opening will be required. The Intelligent CO / Low Frequency Sounder Base is designed as a 6" diameter base which can mounted to a standard 4" octagonal or 4" square electrical box.

CO Alarm Levels

| Mode | CO Level (PPM)       | Alarm Response Time |
|------|----------------------|---------------------|
| 3    | 50 (OSHA IAQ)        | Within 8 Hours      |
| 3, 4 | 70 (UL 2075 / 2034)  | Within 4 Hours      |
| 3, 4 | 150 (UL 2075 / 2034) | Within 50 Minutes   |
| 3, 4 | 400 (UL 2075 / 2034) | Within 15 Minutes   |

Wiring Diagram



Specifications

|                                      |  |
|--------------------------------------|--|
| Operating Voltage                    | UL864 24V Regulated (16-33VDC)   |
| Loop Standby Current                 | 400 $\mu$ A  |
| Loop Alarm Current (LED illuminated) | 1.1 mA   |
| Loop Alarm Current (LED off)         | 600 $\mu$ A  |
| NAC Standby Current                  | 0 mA   |
| NAC Alarm Current High DB            | 130 mA (nominal)   |
| NAC Alarm Current Low DB             | 70 mA (nominal)  |
| Audible Intensity High DB            | > 85 dB @ 10ft   |
| Audible Intensity Low DB             | > 75 dB @ 10 ft  |
| Wiring                               | Solid or Stranded; #12 to #22 AWG Terminals                            |
| Environmental                        | 10% to 85% RH Non-Condensing/Non-Freezing                              |
| Operating Temperature                | 32 $^{\circ}$ F to 122 $^{\circ}$ F (0 $^{\circ}$ C - 50 $^{\circ}$ C) |
| Material                             | Polycarbonate; 94V-0   |
| Dimensions                           | 6" Diameter x 1.8" Height (152mm dia x 46 mm)                          |

Ordering Information

|              |                                 |
|--------------|---------------------------------|
| 45681-805ADV | CO / Low Frequency Sounder Base |
| 45681-801    | Replaceable CO Sensor Module    |
| 45681-292    | Low Profile Blank Cover         |
| MB-SDRT-SM   | Apollo Synchronization Module   |

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