

**EXHIBIT \_\_\_\_\_**  
**USER MANUAL**  
**SMOKE DETECTOR UNIT**



# **SMOKE DETECTOR UNIT**

## **MODELS SD-001, SD-002 & SD-004**

### **USER MANUAL**

#### *Description*

The Smoke Detector Unit is a wireless smoke sensor designed for Aircraft installation.

The Smoke Detector Unit is powered by two 3.6V integral batteries and does not require external power.

The Smoke Detector Unit detects presence of smoke, abnormal temperature, battery energy level and location of the sensor and transmits the information to aircraft smoke system central control unit.

Aircraft mounted identification plugs are connected to a small connector on the backside of the Smoke Detector unit. This enables the sensor to identify its mounting location.

A push button switch accessible from front of the unit is used for system setup.

#### *Installation*

Smoke Detector Unit installation should be performed by qualified personnel only.

Installation shall follow approved aircraft documentation. The sensor faceplate includes four holes for mounting bolts.

#### *Activation & Setup*

Smoke Detector Unit is factory programmed and does not need any special activation or adjustments.

Install the batteries in their holders following approved aircraft documentation. Sensor will start transmission upon installation of batteries.

Follow aircraft documentation for system setup.

## Specifications

Smoke Detector Unit Dimensions (L X W X D)	5.5 in X 5.5 in X 2 in 14 cm X 14 cm X 5 cm
Input power	Two 3.6V AA size lithium-thionyl chloride batteries Replace batteries only with P/N 160-1173-02
Weight	2.0 lbs max.
Operating Temperature	-30° C to +70°C
Operating frequency	902-928MHz Spread Spectrum
Output Power	100mW max.
RF emissions standards	FCC Part 15
Normal transmission rate	One burst every 30 seconds
Alarm transmission rate	Four bursts every 5 seconds

### IMPORTANT NOTES

Replace batteries every 3 years or following a low battery indication, whichever occurs first.

## FCC Notice

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- \* Reorient or relocate the receiving antenna.
- \* Increase the separation between the equipment and receiver.
- \* Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- \* Consult the dealer or an experienced radio/TV technician for help.

The user is cautioned that changes and modifications made to the equipment without the approval of manufacturer could void the user's authority to operate this equipment.

"CAUTION: To comply with FCC RF exposure compliance requirements, a separation distance of 2 cm must be maintained between the antenna of this device and all persons."