Securaplane System 450

- ## Reliability

  Achieved through years of avionics design, sensor innovation, system redundancy, severe environmental testing.

- ## Simple Operation

  The Digital Alarm Indicator (DAI-08) is a subminiature CDU which mounts inside an external door and takes only minutes to learn. Each operation is clearly indicated in plain english on the bright,10 character scrolling LED. This unit allows for keyless arming and disarming. The DAI-08 is designed to be installed in the same space as a keyswitch and arm LED and can replace both. The internal Control Display Unit provides comprehensive information regarding intrusions.

- ## Field Proven

  Over 300 installations since 1989, B-747-400's through turboprops. References available.

- ## Unsurpassed Wheelwell Protection

  Custom designed, environmentally tested (DO-160C) passive infrared wheelwell sensor with temperature compensation. This sensor revolutionized the science of reliable aircraft intrusion detection.

- ## Door Panel Sensors

  Featuring the unique ruggedized all metal magnetic reed switch (MAG-01). Securaplane's flexible systems can use a variety of sensor types including metal proximity switches, microswitches, and our preferred MAG-01.

- ## Master CDU

  Enhanced internal Control Display Unit (CDU-550) features easy to use functions, displaying information on a 4-line, plain english LCD. Permanently stores over 1600 events including arm/disarm times as well as intrusion time/duration information. Soft menu keys allow for easy and intuitive use.

- ## Installation Ease

  Acclaimed by installers to be the easiest and least time consuming system to install and troubleshoot.

- ## Battery Endurance

  The standard 450 system using the BP-450-03 Power Communications Unit (PCU) will run 8-10 days. An optional BP-460 will provide 10-13 days. A BP-1224 ADD-ON battery pack will double the BP-460 run time.

- ## Most Commonly Selected Options:

  - VRU-01:	104dBm audible (operator programmable) voice alarm.
  - SP-02:	Solar panel extends battery life.
  - CPM-T:	PIR (wheelwell sensor) alignment tool.
  - IND-07:	External indicator of an alarm on the aircraft even if system is not powered.

The highest duration run time of any Securaplane system.

Securaplane's innovative DAI-08 provides keyless external arming and disarming, with plain language communication on its 10-digit scrolling alpha-numeric display.

Often selected by operators desiring top level performance but not requiring an RF link to the aircraft.

Power Communications Unit (PCU)

Input Power Requirements:
Aircraft 28v DC

Size: Weight:
1/2 ATR   17.0 lbs.

Operating Time:
8-10 days (using 3 PIRs, BP-450)

Recharge Time:
(From flat battery)
90% capacity 2.5 hours
50% capacity 1.0 hour
Charge status can be reviewed from CDU. Optional battery packs available to increase operating time. See options list.

Control Display Unit (CDU)

Size: Weight:
1.87″(H)   0.71 lbs.
5.837″(W)
2.891″ (D)

Alarm Storage: 1600 Alarms
Zones: 64 zone capability
Display: LCD Alpha-Numeric
Lighting: LED

Passive Infrared (PIR) Wheelwell Sensors

Size: Weight:
3.640″(W) Face   0.41 lbs.
1.850″(H) Body
2.500″ (L)
Power: 12v DC 3.5 mA

Digital Alarm Indicator (DAI-08)

Size: Weight:
1.75″(W face)   0.2 lbs.
1.25″(H)
2.25″ (D)
Display: Scrolling 10 digit red LED
Displays number of alarms and zones violated or disabled.

Environmental

CDU
Temp -30° to +55°C (DO-168)
PCU
Temp: -55° to 71 ° (DO-160C)
Altitude: 55,000 ft. (DO-160C)
EMI/RFI Cat. B (DO-160C)
Humidity: Cat. A (DO-160C)
Vibration: Cat. N (DO-160C)

Solar Panel

Size: Weight:
0.25″(D)   2.8 lbs.
10.5″(H)
17.5″ (W)
Power: Output 10 watts max.
Mounting:
Sits on glareshield.
Power Plug disconnect.
Stows during flight.

Securaplane SYSTEM 450

For optional Camera System components, see the Optional Equipment Page.

Solar Panel SP-02

Voice Response Unit VRU-01

(Optional) Key Switch KS-03 Redundant Arm/Disarm

Power Supply Unit BP-450/460

Passive Infrared Wheelwell Detector PIR-375

Magnetic Reed Switch MAG-01

Control Display Unit CDU-550

Alarm Indicator IND-07

Digital Alarm Indicator DAI-08 Keyless Arm/Disarm