

# SAE 5-35 Altitude Data System

## The Standard For Altitude Reporting



**Certified To 35 Thousand Feet.**

**100' Resolution Grey Code For Transponder**

**Dual RS232 Output with 10' Resolution**

**Exclusive Altitude In-flight Monitoring**

**1.1" High For Mounting Versatility**

**TSO'd**

**Backed By SANDIA aerospace's 3 Year Warranty**



# SAE 5-35 Altitude Data System

## PERFORMANCE YOU CAN COUNT ON

The SAE5-35 provides performance usually reserved for the largest corporate and airline aircraft. It is accurate to within 50 feet throughout its entire operating range, and the RS232 outputs have a resolution of 10 feet. When you install an SAE5-35, you can count on your transponder reporting the proper altitude every flight.

## DESIGNED IN QUALITY

When SANDIA aerospace engineers set out to design the SAE5-35, they began with a temperature compensated pressure transducer. This technology virtually eliminates warm up time and significantly increases the accuracy over the full altitude and temperature range. Next, they added transient and reverse voltage protection to ensure a long trouble free life. They even included two connectors, so upgrading from ordinary encoders is a snap. One look at the construction of the SAE5-35 and the quality that is built into every unit becomes apparent. In fact, we're so sure of the quality, we back every SAE5-35 with a three-year hassle free warranty.

## MEETING TOMORROW'S NEEDS TODAY

The days when only a transponder required altitude information are in the past. Today, GPS and Terrain Awareness Systems also require accurate altitude information. The SAE5-35 supplies all these requirements...in a single unit. Not only does the

SAE5-35 provide Grey code to the transponder but also two independent RS232 outputs to feed GPS and Terrain Awareness Systems. And with only one unit, you save the cost and space of adding a serial data adapter while enhancing system reliability.

## TAKE AIM AT YOUR ALTITUDE

The SAE5-35 has given sight to the blind encoder with SANDIA aerospace's exclusive Altitude In-flight Monitoring (AIM). AIM keeps a constant eye on your selected altitude and lets you know if you begin to stray. When you arrive at your desired cruise altitude, simply push the "SET" button on the AIM annunciator. Your current altitude is stored in memory and continually monitored by the SAE5-35. If you deviate more than 100 feet from your selected altitude, the AIM annunciator will display "ALT". Deviate 200 feet or more and the "ALT" annunciator will flash twice per second, letting you know that you need to climb or descend.

## Technical Specifications

### Mechanical Specifications:

Height: 1.06" (1.57")  
Width 4.87" (5.11")  
Depth: 4.74" (4.80")  
Weight: 0.7 lbs (.86 lbs)  
Values in parentheses are with mounting tray.

### AIM Output

Maximum Lamp Current: 80mA  
Maximum Off Voltage 50V

### Electrical Specifications:

Altitude: 35,000'  
Power Input: 11 - 33 Vdc  
Current: .9 amps (with heater on)  
Outputs: One Grey Code  
Two RS232  
Resolution: Grey Code 100'  
RS232 10'  
Accuracy: 50' or better throughout range  
TSO: C88a