



## AH500 SPECIFICATIONS

### PROGRAMMABLE VOICE AND LEGEND ANNUNCIATOR



The AH500 combines flight, engine and aircraft configuration data to generate voice and visual alerts. The unit is programmed to warn off against switched, analogue and EFIS data inputs based on the switched state, value threshold or combinations of inputs to generate envelope alarms. Envelope alerts could include oil pressure profiles, speed/ configuration envelopes, gear not down and oxygen alerts. Data is gathered from directly connected switches and analogue inputs as well as being able to take flight and engine data from Electronic Flight Information Systems (EFIS) and Engine Monitors when available via serial buses. Alerts are mapped to custom voice and/or sunlight readable and auto dimming captions with integration to a remote Master Caution, Master Warning and alert acknowledgement switch.

#### Inputs

4 Analogue: 0-32V DC  
 10 Switched: Volt free input  
 1 Acknowledge: Switched (Volt free) input  
 Press to test: Internal

Warning: 3 x Aviation Red (as std)  
 Caution: 13 x Aviation Yellow (as std)  
 Window: Non-reflective  
 Anti-scratch hard coating

#### Data interfaces

2 x RS232: RX/TX  
 (+/- 5V)  
 EIA/TIA-232

#### Power supply

Supply: 10 to 32V DC  
 Over-voltage protection  
 Reverse voltage protection  
 Current: 35mA @ 13.8V standby  
 50mA per illuminated legend

#### Outputs

Master Warning: 50mA Constant Current Sink  
 PWM Auto dimming  
 Master Caution: 50mA Constant Current Sink  
 PWM Sink  
 VLED: 10V

#### Physical Specifications

Mounting: Front mounted  
 Construction: machined 6082 Alloy  
 Dimensions: 6 1/4" wide (158.8mm)  
 1 3/4" high (43.7mm)  
 1 1/2" deep (35.8mm)  
 Weight: 6.5oz (180g)

#### Audio

Audio clips: Max 64 Voice clips  
 Hi/Lo output  
 Impedance: 460-ohm  
 RMS Max: 1VAC

#### Environmental

Temperature: -20°C to +55°C Operating  
 (-4°F to 131°F)  
 -20°C to +70°C Storage  
 (-4°F to 158°F)  
 Humidity: <85% non-condensing  
 Vibration: 10-2000Hz (20g)

#### Logic

Max 256 logical arguments

#### Optics

Illumination: 163-step auto dimming  
 Double redundant LED  
 Direct sunlight readable  
 Hidden until lit  
 High contrast

#### Compatible accessories

AH501 Master Caution/ Warning (not included)  
 AH504 I/O Expansion unit (not included)

Specifications are subject to change without notice.

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