RCA1510 SERIES
DIGITAL HEADING INDICATOR

rc allen instruments

- IMPROVED USER INTERFACE
- NEW CUSTOMIZATION OPTIONS
- INTERNAL BATTERY BACKUP OPTION
- INTERNAL MAGNETOMETER
- MULTI-VOLT OPERATION (9 TO 32 VOLTS)
- FITS STANDARD PANEL CUTOUT
- ALL DIGITAL - NO MOVING PARTS
- TOTALLY SELF-CONTAINED
- LIGHTWEIGHT 6.75 oz.
- <u>FULLY FAA CERTIFIED</u>

2 YEAR WARRANTY!

The popular **RCA1510** Series Digital Heading Indicator has a unique **User Interface** which allows the pilot to input heading information, switch display configurations and access calibration status. The **Customizable Options** allow for a multitude of display configurations, which includes simultaneously indication of both "Ground Track" and "Magnetic" heading types.

The **RCA1510** is designed as a fully FAA Certified direct replacement for your mechanical Directional Gyro. It is totally self-contained and fits in a standard 3-inch panel cut-out. The **RCA1510** obtains GPS information through an RS232 communication signal from an existing GPS receiver on the aircraft. An optional internal GPS receiver which obtains a GPS signal from a dedicated powered antenna is also available (See figure 2 Model Options).

CUSTOMIZABLE DISPLAY

NEW MENU DISPLAY

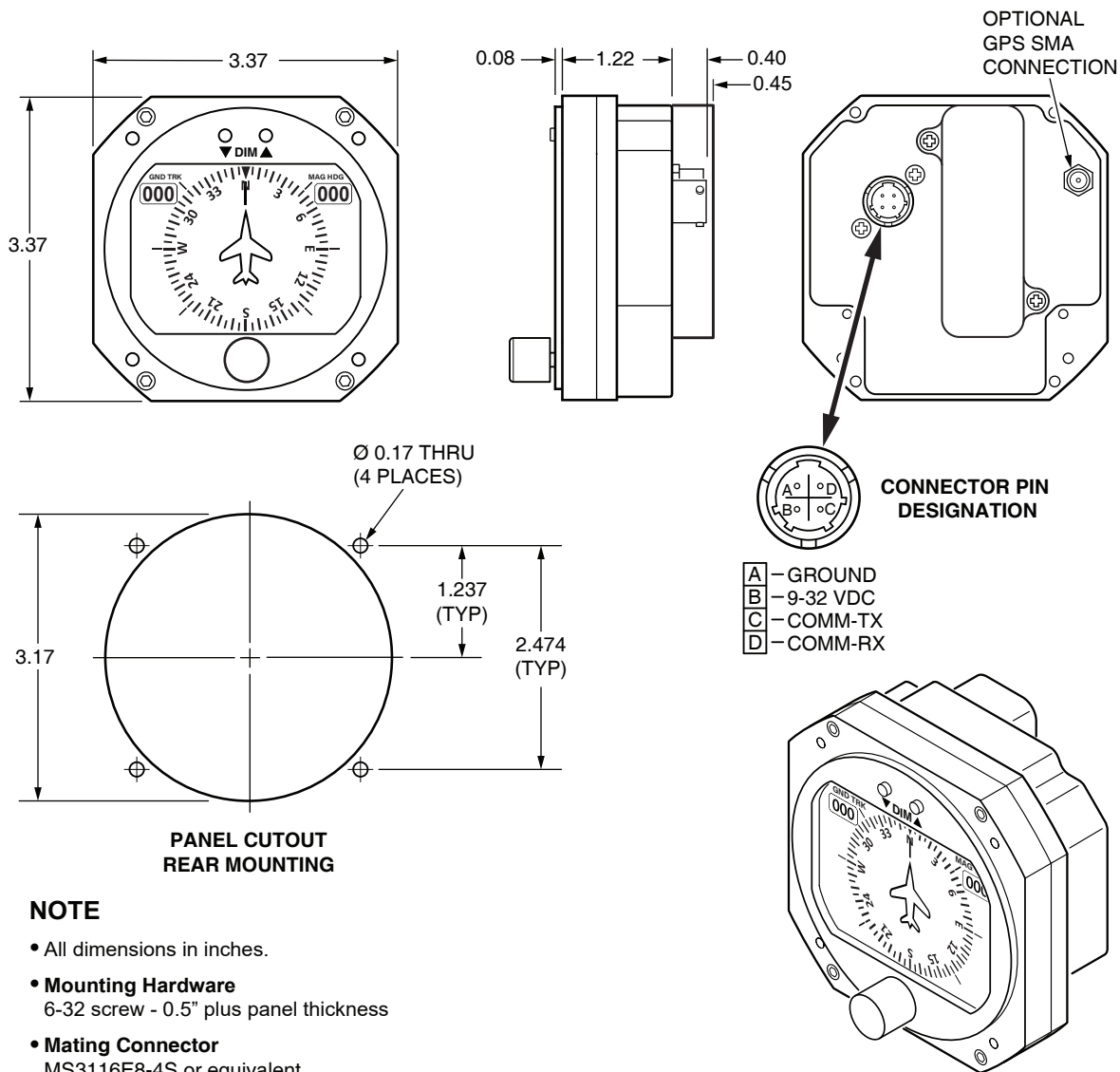|	
<u>OPERATING VOLTAGE</u>	9 to 32VDC
<u>RUNNING CURRENT</u>	(14VDC system) 0.35 AMPs MAX (28VDC system) 0.20 AMPs MAX
<u>CIRCUIT BREAKER SIZE</u>	1 AMP
<u>ACCURACY</u>	2 DEGREES
<u>OPERATING TEMPERATURE RANGE</u>	-20º TO +55º C
<u>MATING CONNECTOR</u>	MS3116E8-4S OR EQUIVALENT
<u>DIMENSIONS</u>	SEE FIGURE 1
<u>WEIGHT</u>	8.35 oz.
<u>Battery Backup:</u>	Rechargeable LiPO Battery (Up to 3 hours)
<u>FAA SPECIFICATION CONFORMANCE</u>	TSO-C6e, TSO-C113a, DO-160G & DO-178B Level C

VISIT US AT:

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**PANEL CUTOUT
REAR MOUNTING**

Ø 0.17 THRU
(4 PLACES)

1.237
(TYP)

2.474
(TYP)

3.17

3.37

3.37

0.08   1.22   0.40
0.45

OPTIONAL
GPS SMA
CONNECTION

**CONNECTOR PIN
DESIGNATION**

A — GROUND
B — 9-32 VDC
C — COMM-TX
D — COMM-RX

NOTE

• All dimensions in inches.

• **Mounting Hardware**
  6-32 screw - 0.5" plus panel thickness

• **Mating Connector**
  MS3116E8-4S or equivalent.

Figure 1, General Dimensions of the RCA1510-3.

PART NUMBER	GPS SIGNAL INPUT		NVIS COMPATIBLE	BATTERY BACKUP
	DEDICATED ANTENNA (SMA)	RS232 SERIAL CONNECTION		
103-0503-03-01	X			
103-0503-03-02	X		X	
103-0503-03-03	X			X
103-0503-03-04	X		X	X
103-0503-03-05		X		
103-0503-03-06		X	X	
103-0503-03-07		X		X
103-0503-03-08		X	X	X

Represents Manufacturer's Choice: Best value and lead times.

Figure 2, Model Options.