

EAM108

GAC to WOODWARD (8290)

Interface Module

1 INTRODUCTION

The EAM108 is an electronic interface module de-signed for use with the Woodward 8290 speed control. The typical application uses the GAC auto sync and load sharing systems with the 8290 engine speed control. A galvanic isolated barrier prevents noise from interfering with measured signal.

The module accepts a nominal 5.0V DC signal and provides a 1.5V DC signal output to the 8290 control. DC power for the module is supplied from the 24 V DC battery that powers the 8290 control.



2 SPECIFICATIONS

POWER	
Input Impedance (Terminals A and D)	60 K Ω
Output Impedance (Terminals 11 and 12)	5.8 K Ω
Nominal Output Voltage (Terminals 11 and 12)	1.50 V DC
Output Voltage Range (Terminals D and A)	5.0 V DC
Transfer Function	-1.9 volts/ volt (without trim pot) -1.1 volts/ volt (with trim pot)
DC Supply Voltage Range (Terminals 1 and 12)	15 - 32 V DC
DC Supply Current (Terminals 1 and 12)	20 mA
Trim Pot (Terminals A, B, & C)	use 5K trim potentiometer
PHYSICAL	
Temperature Range	-40° - 185 °F [-40° to 85 °C]
Dimensions	1.02 x 3.0 x 3.5 in [25.91 x 101.60 x 118.62]
Mounting	Vertical mounting preferred
Relative Humidity	up to 97%

3 WIRING AND DIMENSIONS



An overspeed shutdown device, independent of the governor system, should be provided to prevent loss of engine control which may cause personal injury or equipment damage. A secondary shutoff device, such as a fuel solenoid, must be used.

The common battery minus connection between the 8290, EAM108, and the GAC auto-sync and load sharing system should be as direct as possible electrically (minimum voltage difference).

