

EAM121 GAC ESD to Woodward Interface Module

1 INTRODUCTION

The EAM121 is an interface module which accepts a nominal 0 V DC input signal with a range of +/- 3V DC and outputs a nominal 5 V DC across a galvanic isolated barrier to prevent noise from interfering with measured signal.

Typical usage is for signal conversion of the DC output signal from a Woodward load sharing or synchronizing system to operate a GAC ESD or other Series governor system.

The power to operate this interface comes from the output side (GAC) and is nominally 24 V DC.



2 SPECIFICATIONS

POWER	
Input Impedance (Terminals 5 and 6)	47 K Ω
Input DC Voltage (nominal) (Terminals 5 and 6)	0 V DC
Output Impedance (Terminals 3 and 4)	10.0 K Ω
Output Voltage Range (Terminals 3 and 4)	5.0 V DC
Nominal Output Voltage (Terminals 3 and 4)	0 +/- 10.0 V DC
Transfer Function	1.4 Volts / Volt
Supply Voltage Range (Terminals 1 and 2)	15 - 32 V DC
Supply Current (Terminals 1 and 2)	75 mA
Isolation Barrier Rating (Terminals 4 and 5)	1000 V DC
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.

Jumper GAIN access points. Gain is negligible (.02-.20V).

GAC SPEED CONTROL UNIT (ESC, ESD, DSC) *

