
 <p>Engine Governing Systems</p>	<p>Document: Technical Description Version: 1 Status: actual Author: bs Date: 01-12-17 Approved: ro Date: 01-12-17 File: PC</p>	<p>EAM120 GAC to WOODWARD 2301A Interface Module</p> <p>GAC PIB4075 (March 2001)</p>	 <p>HUEGLI TECH LTD SWITZERLAND Tel.: +41-62-916 50 30 Fax: +41-62-916 50 35 www.huegli-tech.com</p>
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EAM120

GAC to WOODWARD 2301A INTERFACE MODULE

Introduction

The EAM120 is an interface module which accepts a nominal 5V DC input control signal and provides a nominal 0V DC output with a range of +/- 5V DC across a galvanic isolation barrier. Typical usage is for the interface of a GAC auto-synchronizer and load sharing system to a Woodward 2301A control system that has internally isolated DC circuits. Other applications are also possible. The power to operate the module comes from the input side (GAC) and is nominally 24V DC.

Wiring

See Wiring Diagram.

Note: The common battery minus connection between the Woodward 2301A control, EAM120, and the GAC auto-sync and load sharing system should be as direct as possible electrically (minimum voltage difference).

Specifications

Input impedance (Terminals 6 & 5)	200K ohms.
Input DC voltage (nominal) (Terminals 6 & 5)	5.0V DC
Output impedance (Terminals 3 & 4)	10K ohms
Output voltage range (Terminals 3 & 4)	-5 to + 5V DC
Nominal output voltage (Terminals 3 & 4)	0V DC +/-0.15V DC
Transfer function	-1 volts / volt
Supply voltage range (Terminals 1 & 2)	15 – 32V DC
Supply current (Terminals 1 & 2)	75 mA
Temperature range	-40° to +85°C
Isolation barrier rating (Terminals 4 & 5)	1000V DC



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**EAM120
GAC to WOODWARD 2301A
Interface Module**

GAC PIB4075 (March 2001)



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Wiring Diagram WD 181

