

**Introduction**

The EAM120 is an interface module which accepts a nominal 5Vdc input control signal and provides a nominal 0Vdc output with a range of +/- 5Vdc 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 typically 12Vdc or 24Vdc, system voltage.

**Order Information**

When ordering the EAM120, you must specify system voltage accordingly.

EAM120-12

**or**

EAM120-24

**Wiring**

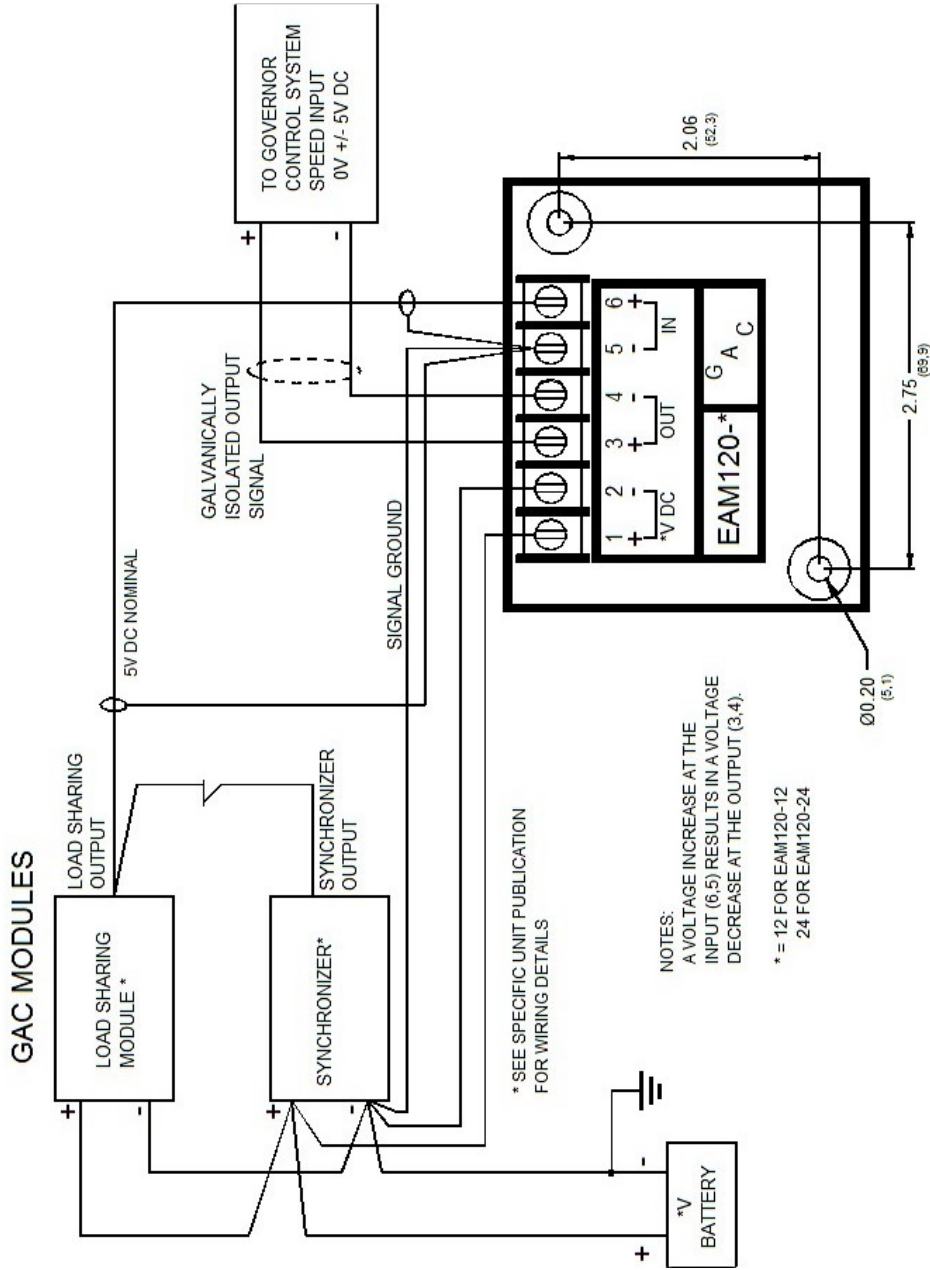
See Wiring Diagram.

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

**Specifications**

Input Impedance (Terminals 5 & 6) .....	200K ohms
Input DC Voltage (nominal) (Terminals 5 & 6).....	5.0Vdc
Output Impedance (Terminals 3 & 4) .....	10K ohms
Output Voltage Range (Terminals 3 & 4) .....	-5Vdc to + 5Vdc
Nominal Output Voltage (Terminals 3 & 4) .....	0Vdc +/- 0.15Vdc
Transfer Function.....	1 volt / -1 volt
Supply Voltage Range (Terminals 1 & 2).....	12Vdc or 24Vdc
Supply Current (Terminals 1 & 2) .....	75mA
Temperature Range .....	-40°C to +85°C
Isolation Barrier Rating (Terminals 4 & 5) .....	1000Vdc

# Wiring Diagram



PIB4075
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