
	Document: Technical Description Version: 1 Status: actual Author: bs Date: 01-12-07 Approved: ro Date: 01-12-07 File: PC	EAM110 GAC to CUMMINS QST Interface Module GAC PIB4086 (March 2001)	 Tel.: +41-62-916 50 30 Fax: +41-62-916 50 35 www.huegli-tech.com
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EAM110 GAC to CUMMINS QST INTERFACE MODULE

Introduction

The EAM110 interface module is designed to provide analog signal conditioning between a GAC auto sync / load sharing system and the Cummins QST engine control. With a nominal 5.0V DC at the input, the output will provide a 5.0V DC output signal based on the Cummins QST internal 5.0 Volt reference.

The power to operate the interface module comes from the same 24V DC battery system that operates the QST engines system.

Wiring

See Wiring Diagrams.

Note: The common battery minus connections between the QST system, EAM110, and the GAC auto load sharing and sync system should be as direct as possible electrically (minimum voltage difference).

Note: The input Terminal 16 on the Cummins control is normally connected to the output of the EAM110 Terminal 16.

Note: An external trim pot may be connected to the EAM110 for manual adjustment of speed. Use a 5K pot connected to Terminals A, B, and E as shown in the Wiring Diagram.

Specifications

Input impedance (Terminals D & ??)	30K ohms
Output impedance (Terminals 16 & 27)	3K ohms
Nominal output voltage (Terminals 16 & 27)	5.0V DC
Output voltage range (Terminals 16 & 27)	0-2.6V DC
Output transfer function	-0.5 volts/ volt
Temperature range	-40° to +85°C
DC supply range (Terminals 16 & 27)	15 to 32V DC
DC supply current (Terminals 16 & 27)	20 mA



Engine
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**EAM110
GAC to CUMMINS QST
Interface Module**

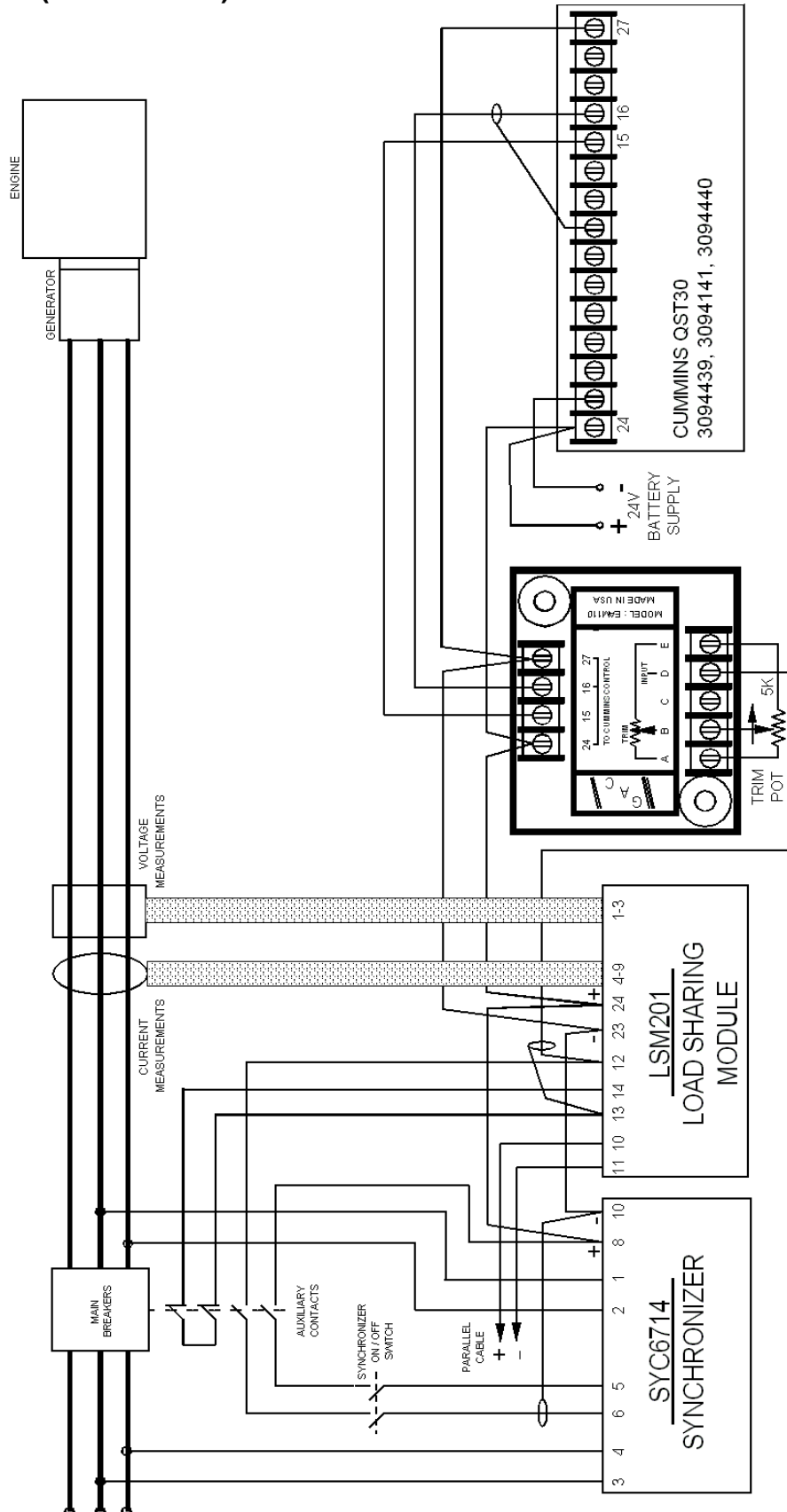
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Wiring Diagram (with LSM201) WD170A





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Wiring Diagram (with LSM672) WD185

