
	Document: Technical Description Version: 1 Status: actual Author: bs Date: 01-12-07 Approved: ro Date: 01-12-07 File: PC	EAM115 GAC to PERKINS Interface Module GAC PIB4073 (March 2001)	 Tel.: +41-62-916 50 30 Fax: +41-62-916 50 35 www.huegli-tech.com
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EAM115

GAC to Perkins INTERFACE MODULE

Introduction

The EAM115 is an interface module that provides conditioned electrical signals for Perkins 1300 Series engine/genset applications (Edi 6e gen set). A typical application is where a GAC load sharing/ synchronization system is to be connected to such a Perkins engine control system.

The DC supply for the interface comes from the common battery source for the engine control and the accessory controls. The input to the module (Terminal D) is typically 5.0V DC, which represents the load sharing, and synchronization signals. The output of the EAM115 to the Perkins control is a 2.5V DC signal based on the Perkins 5.0V DC reference signal.

Wiring

See Wiring Diagram.

The EAM115 interface is connected to the following Perkins chassis side connections:

<u>EAM115</u>	<u>chassis connections</u>
1	24
7	3
8	30
11	11

Note: The common battery minus connection between the Perkins engine control, EAM115, and the GAC auto-sync and load sharing system should be as direct as possible electrically (minimum voltage difference).

Specifications

Input impedance (Terminals A & D)	40K ohms
Output impedance (Terminals 8 & 11)	110K Ohms
Nominal output voltage (Terminals 8 & 11)	2.50V DC
Nominal DC input voltage (Terminals A & D)	5.0V DC
Output transfer function	-1.0 volts/ volt
Temperature range	-40° to +85°C
DC supply range (Terminals 1 & 11)	15 to 32V DC
DC supply current (Terminals 1 & 11)	20 mA

