
 <p>Engine Governing Systems</p>	<p>Document: Technical Description Version: 3 Status: actual Author: bs Date: 08-01-11 Approved: ro Date: 08-01-11 File: PC</p>	<p>EAM111 GAC to MTU ADEC Interface Module</p> <p>GAC PIB4088 (March 2001)</p>	 <p>HUEGLI TECH LTD SWITZERLAND Tel.: +41-62-916 50 30 Fax. +41-62-916 50 35</p>
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EAM111 GAC to MTU ADEC INTERFACE MODULE

Introduction

The EAM-111 is an electronic interface module designed to work with the MTU ADEC electronic engine controls. The module can accept a speed setting voltage range signal as wide as 0-10V DC or a narrow trimming voltage centered around 5.0V DC. The module's output can be configured to be either a 4-20 or 0-20 mA signal for the ADEC system. Integral range and zero adjustments allow the installer to precisely configure the output vs. the input characteristics.

Power for the module comes from the 24V DC system powering the ADEC engine control.

Wiring

See Wiring Diagram.

Note 1: When using the load sharing/ sync input with 5.0V DC at Terminal C, a jumper must be placed between Terminals E and 2. Terminals A, B, and D shall all be left open. This will yield about a 12 mA output. Adjust the zero adjustment for exactly 12 mA with the load sharing module connected to the control (5.0V DC at Terminal C).

Note 2: To change from a 0-20 mA range to a 4-20 mA range, a jumper must be added between Terminals A and B.

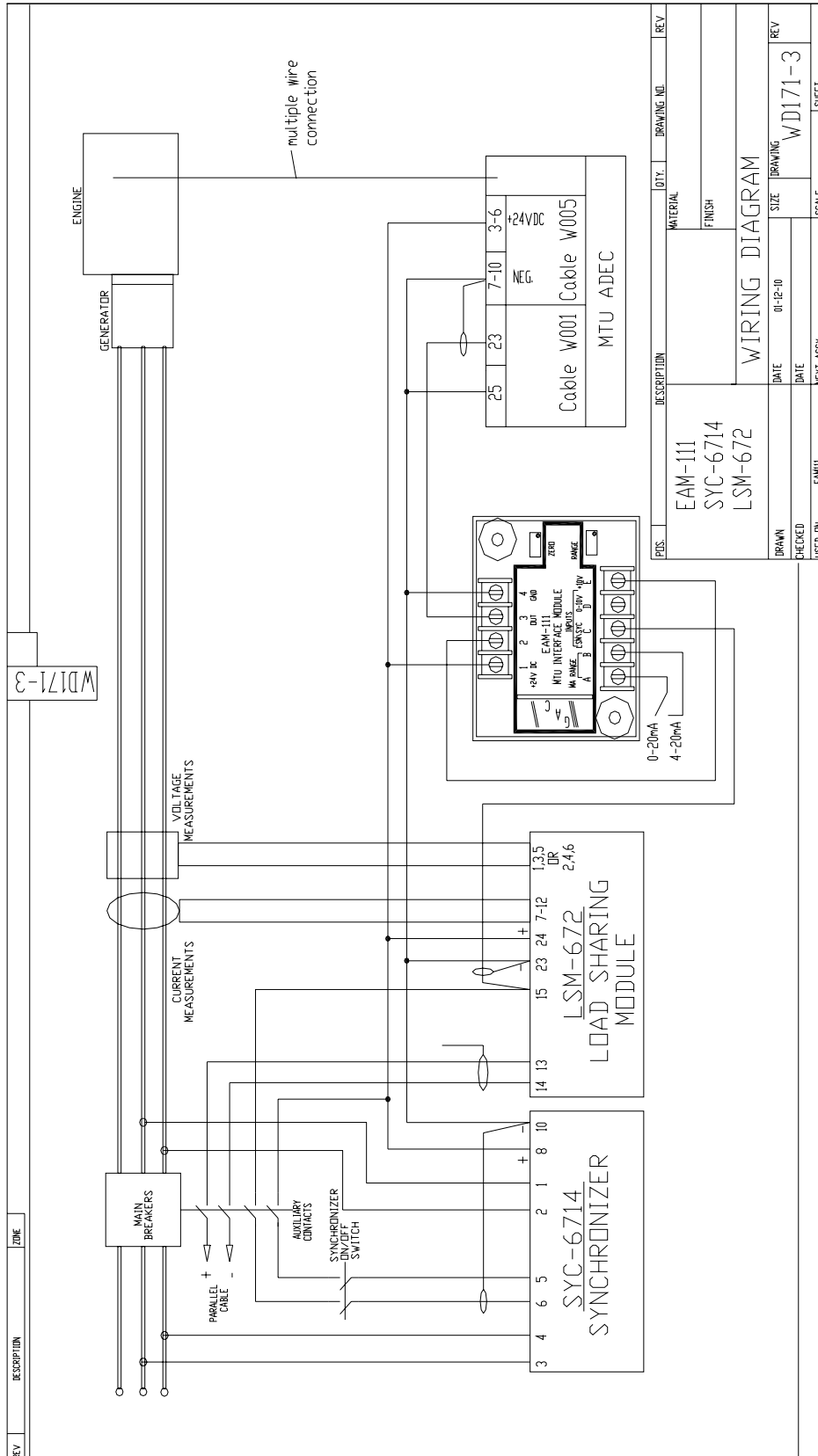
Note 3: The common battery minus connections between the ADEC control, the EAM-111, and the load sharing and synchronizer system should be as direct as possible electrically (minimum voltage difference).

Note 4: The default configuration of the ADEC is for binary UP/DOWN speed request. The ADEC must be programmed (MTU Diasys software) to accept an external speed input signal 4-20 mA. It is recommended to specify the 4-20 mA when ordering the engine.

Specifications

Input Impedance (Terminals D & 4)	1K ohms, min
Input impedance (Terminals C & 4)	2 M ohms
Output capability (Terminals 3 & 4)	20 mA up to 4.5V DC
Output transfer function (C vs out)	
Output transfer function (D vs out)	adjustable
DC supply voltage (Terminals 1 & 4)	15 to 32V DC
DC supply current (Terminals 1 & 4)	30 mA
Temp Range	-40° to +85°C

Wiring Diagram WD171-3 (EAM-111 & SYC-6714 & LSM-672)



REV.	DESCRIPTION	QTY.	DRAWING NO.	REV.
	EAM-111			
	SYC-6714			
	LSM-672			
	WIRING DIAGRAM			
	DATE	01-12-10	SIZE	WD171-3
	DATE		SCALE	
	CHECKED		USED ON	EAM111
	DRAWN		SCALE	
				SHEET

