
	Document: Technical Description Version: 1 Status: actual Author: bs Date: 01-12-07 Approved: ro Date: 01-12-07 File: PC	EAM 114 GAC to DEUTZ EMR Interface Module GAC PIB4072 (March 2001)	 Tel.: +41-62-916 50 30 Fax: +41-62-916 50 35 www.huegli-tech.com
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EAM114 GAC to DEUTZ EMR Interface Module

Introduction

The EAM114 is an electronic interface module that provides conditioning of electronic signals to operate the DEUTZ EMR engine control system. A typical application is where a GAC auto synchronizing and load sharing system is to be connected to the DEUTZ EMR engine control system.

The DC supply for the interface comes from the common battery source for the governor and the accessory controls. The input to the module (Terminal D) is typically at 5.0V DC, which represents the auto-sync and load sharing outputs analog signals. The output of the EAM114 to the EMR engine control is 2.5V DC with the EMR 5.0V DC reference connected to Terminal 2.

Wiring

See Wiring Diagram.

Note 1: All four (4) connections to the EMR control system are required.

Note: The common battery minus connection between the EMR, EAM114, and the GAC auto-sync and load sharing system should be as direct as possible electrically (minimum voltage difference).

Specifications

Input impedance (Terminals A & B)	20K ohms
Input DC voltage (nominal) (Terminals A & B)	5.0V DC
Output impedance (Terminals 3 & 4)	5K ohms
Nominal output voltage (Terminals 3 & 4)	2.50V DC
Output voltage range (Terminals 3 & 4)	0.5 to 4.5V DC
Transfer function	-2 volts/ volt
DC supply voltage range (Terminals 1 & 4)	15 – 32V DC
DC supply current (Terminals 1 & 4)	20 mA
Temperature range	-40° to +85°C

Note: Customer must specify 12V or 24V operation.



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EAM 114
GAC to DEUTZ EMR
Interface Module

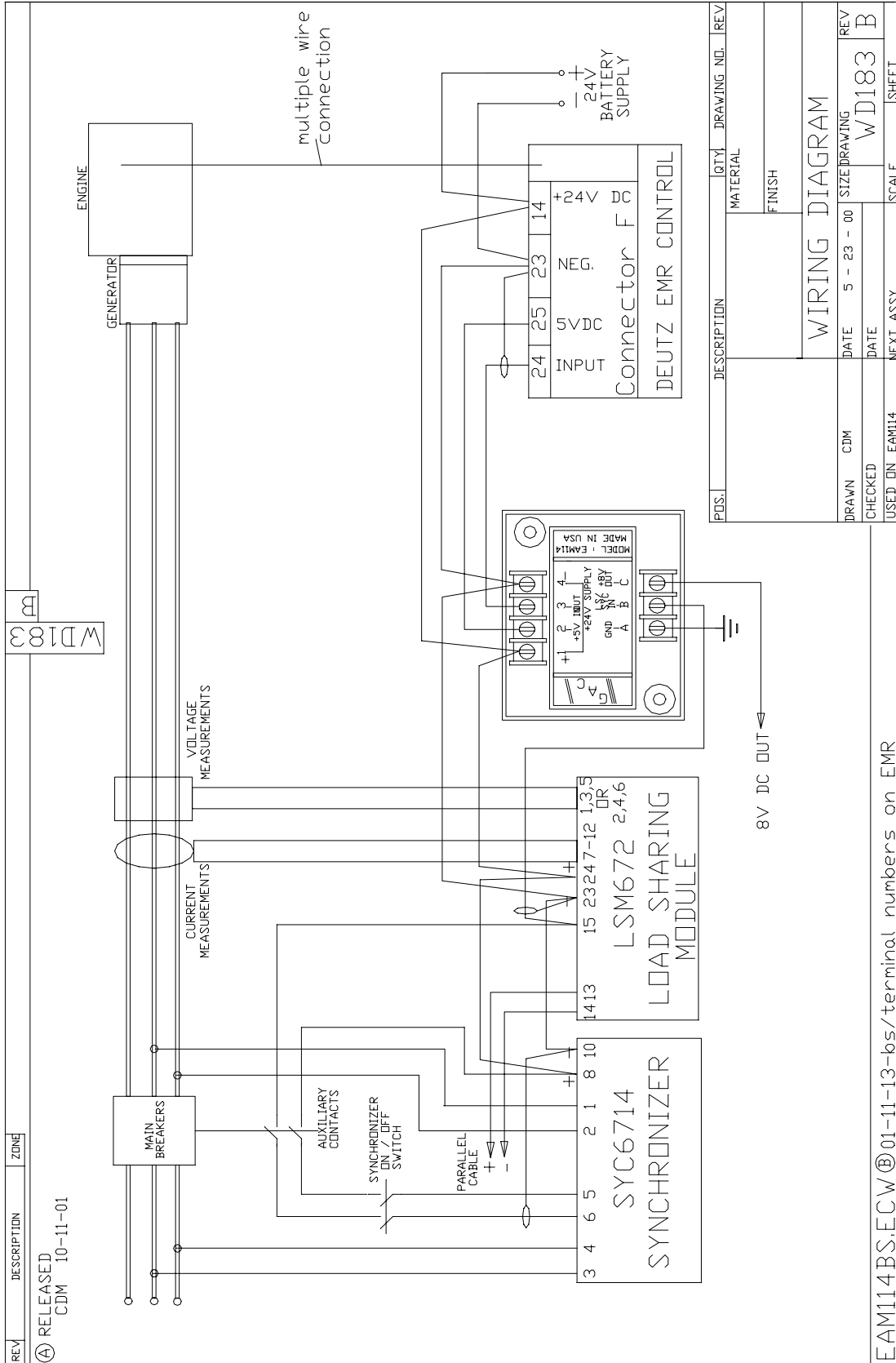
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HUEGLI TECH LTD
 SWITZERLAND

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Wiring Diagram WD183B





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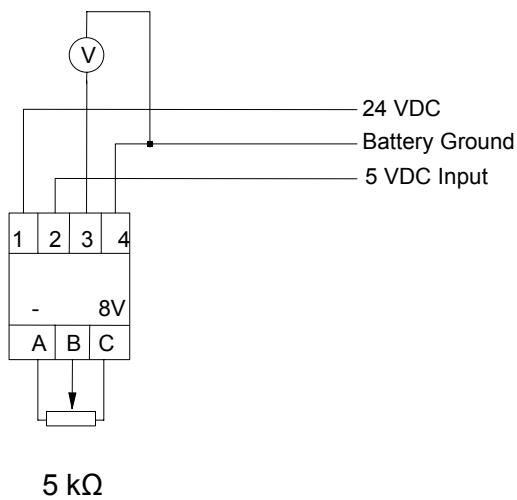
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Testing EAM114



DC Voltage Input at "B"	DC Voltage Output at "3"
0	5.7
2	5.7
3	5.7
4	4.5
5	2.5
6	0.5
7	0.45