

EAM111 GAC to MTU MDEC Interface Module

1 INTRODUCTION

The EAM111 is an electronic interface module designed to work with the MTU MDEC electronic engine controls. The module can accept a speed setting voltage range signal as wide as 0 - 10 V DC or a narrow trimming voltage centered around 5.0 V DC.

The module's output can be configured to be either a 4 - 20 or 0 - 20 mA signal for the MDEC system. Integral range and zero adjustments allow the installer to precisely configure the output versus the input characteristics.

The EAM111 provides:

- Multi-V DC
- MTU M-DEC to GAC LSM/SYC
- All electric sensing
- Accurately measures true power
- Load anticipation and droop adjustment
- Small, compact size



2 SPECIFICATIONS

POWER	
Input Impedance (Terminals D and 4)	1K Ω , MIN
Input impedance (Terminals C and 4)	2 M Ω
Output capability (Terminals 3 and 4)	20 mA to 4.5 V DC
Output transfer function (C vs out)	0 V DC - 10 V DC +/- .5 V DC
Output transfer function (D vs out)	17.5 +/- .5 to 6.5 +/- .5 mA
DC supply voltage (Terminals 1 and 4)	15 to 32 V DC
DC supply current (Terminals 1 and 4)	30 mA
PHYSICAL	
Temperature Range	-40° - 185 ° F [-40° to +85°C]
Dimensions	2.91 x 3.45 in [73.9 x 87.6 mm]
Mounting	Vertical mounting preferred
Relative Humidity	up to 97%

3 WIRING AND DIMENSIONS

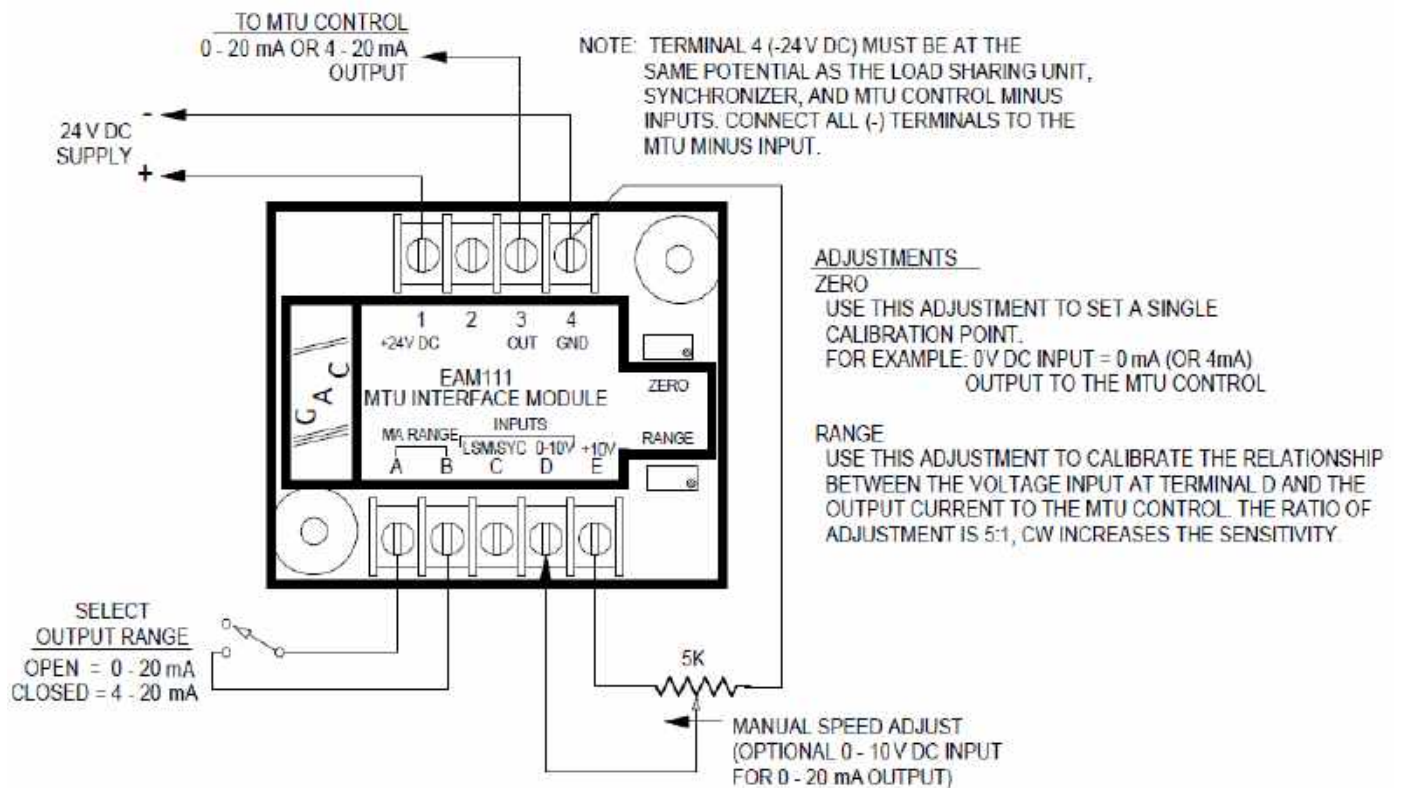


An overspeed shutdown device, independent of the governor system, should be provided to prevent loss of engine control which may cause personal injury or equipment damage.

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

VARIABLE SPEED

VARIABLE SPEED OPERATION WITH THE MTU CONTROL



LOAD SHARING AND SYNCHRONIZATION

