

## 1 INTRODUCTION

The EAM127-24 is an electronic interface module designed for use with the Scania S6 engine control system. The module accepts a nominal 5 V DC input signal and converts this signal to a 1.589 V DC analog signal for the S6 control across a galvanic isolated barrier to prevent noise from interfering with measured signal.

The EAM127 is typically used as a signal conditioner between a GAC auto- synchronizer and load sharing system and the S6 engine control. The power to the interface comes from the 24 V DC on the COO.

## 2 SPECIFICATIONS

POWER	
Input Impedance (Terminals 5 and 6)	200 K $\Omega$
Input DC Voltage (nominal) (Terminals 5 and 6)	5.0 V DC
Output Impedance (Terminals 3 and 4)	100 K $\Omega$
Output Voltage Range (Terminals 3 and 4)	0.9 to 2.4 V DC
Nominal Output Voltage (Terminals 3 and 4)	1.6 V DC
Transfer Function	-0.33 Volts Out / Volt In
DC Supply Voltage Range (Terminals 1 and 2)	15 - 32 V DC
Supply Current (Terminals 1 and 2)	75 mA
Isolation Barrier Rating (Terminals 2 and 4)	1000 V DC
PHYSICAL	
Temperature Range	-40° - 185 ° F [-40° to +85°C]
Dimensions	1.02 x 3.0 x 3.5 in [25.91 x 101.60 x 118.62]
Mounting	Vertical mounting preferred
Relative Humidity	up to 100%

## 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. A secondary shutoff device, such as a fuel solenoid, must be used.

The common battery minus connection between the EMS system, EAM127-24, and the GAC auto-sync and load sharing system should be as direct as possible electrically (minimum voltage difference).

## SCANIA S6 INTERFACE MODULE

## GAC MODULES

