



ETI **Genset**

AMF  
DG - BTS Unit  
Engine Safety Unit

# AMF Controller

EAMF-9924

## Advance AMF Controller



“आत्मत्रमभारत अभियान”

### Description

- The Advance AMF Controller is an advanced 32 bit Micro controller based DG Protection unit and has been specially designed to meet the harsh requirement of Indian conditions.
- The EAMF-9924 series module has been designed to allow the operator to start and stop the generator, and if required, transfer the load to the generator either manually or automatically. Additionally, the EAMF-9924 automatically starts and stops the generator set depending upon the status of the mains (utility) supply & BTS Battery if monitoring Enable.
- The EAMF-9924 module monitors the engine, indicating the operational status and fault conditions, automatically shutting down the engine and giving a true first up fault condition of an engine failure by the LCD display.
- The variants available are
  - **EAMF-9920** - Import Substitute AMF Controller
  - **EMAB-600** - BTS Tower Management Controller
  - **DGMC-500** - Basic AMF Controller
  - **EEPL-666** - Engine Protection & Semi-Auto Controller

### Key Features

- **Controller has higher number of Input and output for flexibility to monitor a large no of sensor & Alarms**
- AMF, Manual & Auto-Start functions Alerts on Real time basis
- Fully configuration via PC using USB, RS-485 communication or CAN communication
- 10 variable digital input / 2 fix digital input
- 5 Variable digital output / 3 fix digital output
- 2 fix analog input
- Engine Run-time scheduler
- Fan failure
- Automatic load transfer control
- BTS sensing compatible
- RS-485 compatible
- CAN BUS compatible
- Scheduler
- Network failure & communication failure alarm
- Unique protection against fan failure for Air Cool Engines
- Remote Start / Stop using wire or also using GUI
- Test Mode for LED indicator
- Under / Over Speed protection
- Alarms and Shutdown for Charging Failure



## Technical Specifications

### DC SUPPLY

- **CONTINUOUS VOLTAGE RATING**  
8 V to 36 V Continuous
- **MAXIMUM OPERATING CURRENT**  
85 mA at 12 V  
96 mA at 24 V
- **MAXIMUM SLEEP CURRENT**  
35 mA at 12 V  
32 mA at 24 V

### GENERATOR (UTILITY)

- **VOLTAGE RANGE**  
70 V to 300 Vac (L - N)  
121 V to 550 Vac (L - L)
- **FREQUENCY RANGE**  
40 Hz to 70 Hz

### MAINS (UTILITY)

- **VOLTAGE RANGE**  
70 V to 300 Vac (L - N)  
121V to 550 Vac (L - L)
- **FREQUENCY RANGE**  
40 Hz to 70 Hz

### INPUTS

- **DIGITAL INPUTS**  
Negative Sensing
- **ANALOGUE INPUTS**  
Resistive sensor

### OUTPUTS

- **OUTPUT - FUEL**  
2A Continuous at Supply Voltage
- **OUTPUT - START**  
2A Continuous at Supply Voltage

### DIMENSIONS

- **OVERALL**  
140 mm x 113mm x 43 mm
- **PANEL CUT-OUT**  
118 mm x 92 mm
- **MAXIMUM PANEL THICKNESS**  
8 mm

### STORAGE TEMPERATURE RANGE

-10°C to +85 °C

### RELATED MATERIAL

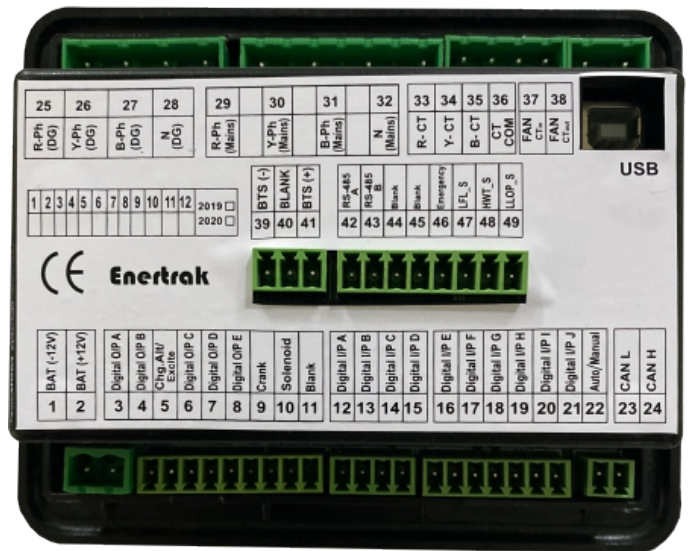
- Specification Sheet - ET07-9924-001
- User Manual & Installation Guide - ET07-9924-002
- PC Software GUI - ET07-9924-003
- GSM Modem Specs Sheet - ET00-485GM-001
- [www.digilive.com](http://www.digilive.com)

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## Communications

- CAN PORT communicates as per J1939 for seamless integration between Engine Monitoring Unit & AMF Controller. As the Engine Monitoring Unit is mounted on the engine, the parameters like Cylinder temperature, Oil pressure etc can be monitored with increased reliability.
- RS-485 port communicates as per MODBUS Protocol & can be easily configured to an Enertrak GSM/GPRS modem for seamless & live data transmission to a host website application.
- The live data can be seen at our website [www.digilive.com](http://www.digilive.com) with User ID & Password details.
- USB port communicates as per USB Protocol for interface of AMF Controller with any PC for configuring the settings in the controller by pushing a configurable file. USB port can also be used for SCADA through Enertrak GUI PC Software.
- Ready for Smart IOT (Internet Of Things) with Enertrak GPRS Modem.

## Connections



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