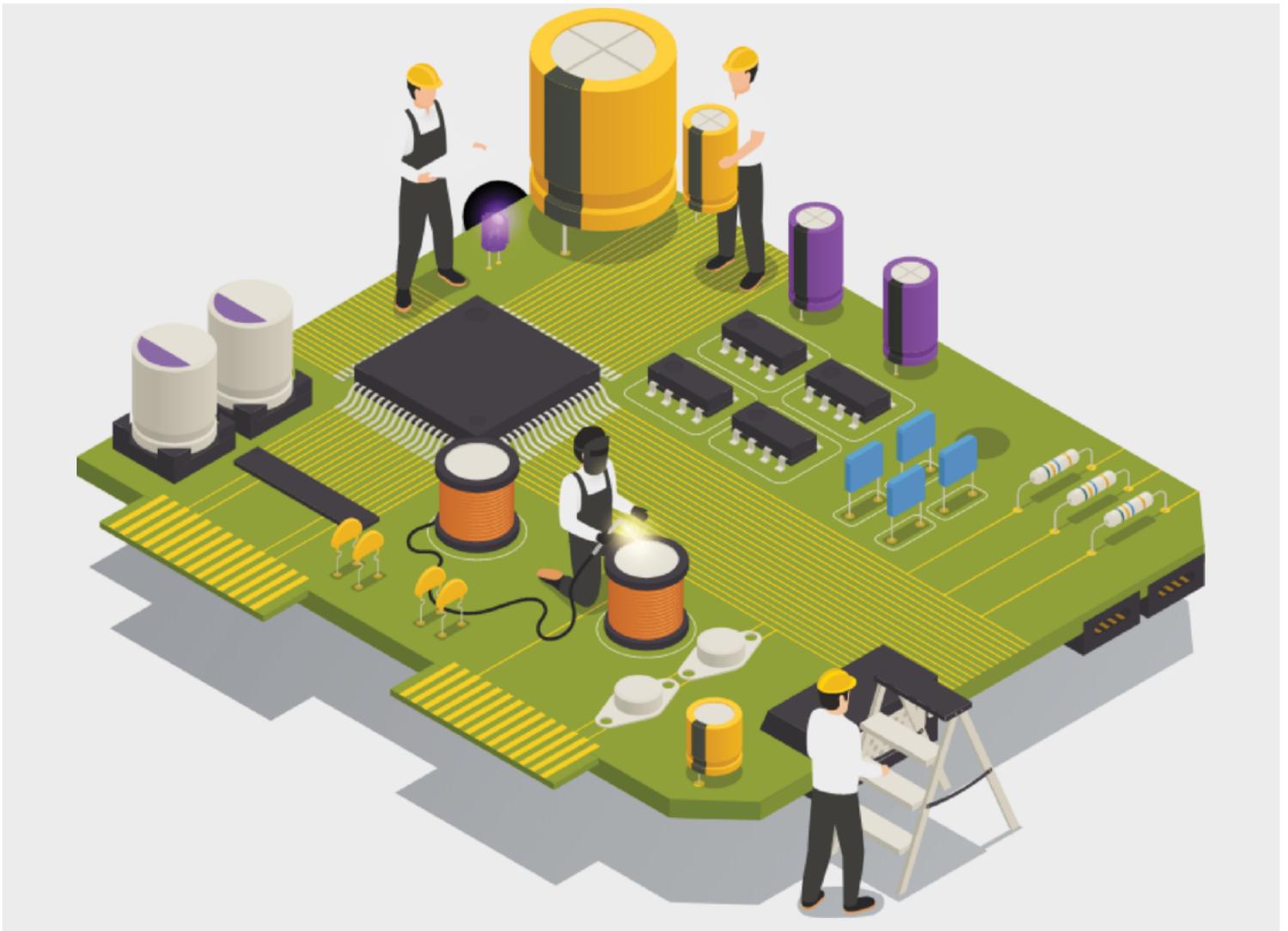


# Products Catalogue & Technical Specifications



---

***Tracking Energy***



## ABOUT ENERTRAK ?

***TRACK ENERGY - SAVE ENERGY***



10+ Years in the Energy Business



Product Versatility to 100+ & counting



1000+ & Growing no. of Happiest Clients



1 Millions products in the field



Tailor-made Solution 10+ Industries



Footprints in 2+ Countries



# One Platform, Many Possibilities...

ETI GENSET | ETI POWER | ETI SMART | ETI IoT



**ETI Genset**

*AMF  
DG - BTS Unit  
Engine Safety Unit*



**ETI Power**

*TOD Meter  
Multifunction Meter  
Power & Energy Meter*



**ETI Smart**

*Servo Controller  
Demand Controller  
Prepayment Controller*



**ETI IoT**

*Meterdekho-GPRS  
EMS-MODBUS-RS485  
Mobile & Internet Apps*

## **ETI GENSET**

1. *Import Substitute AMF Controller (EAMF-9920)*
2. *Advance AMF Controller (EAMF-9924)*
3. *Basic AMF Controller (EAMF-9940)*
4. *BTS Tower Management Controller (EMAB-600)*
5. *Basic Manual Genset Controller (DGMC-500)*
6. *Engine Protection & Semi-Auto Controller (EEPL-666R)*
7. *Engine Control Unit (EEPL-333)*

## **ETI POWER**

1. *Smart Power Analyzer Class 0.2 (EIPL720CR)*
2. *Smart Load Manager Class 0.5 (EIPL56ER)*
3. *Digital Multifunction Meters (TMFR28/TMFR42)*
3. *Single / Dual Source Energy Meter (TEN44/TDSR10)*
4. *Basic Panel Meters (VOLT/AMP/VAF)*
5. *DC Energy Meter (DCEM-1.0)*
6. *Dual Source Multifunction Meter (TDSMR42)*

## **ETI SMART**

1. *Smart Servo Controller (ESC-091)*
2. *Smart Dual Source Utility Meter (EURO-1)*
3. *Smart Triple Source Utility Meter (EURO-3)*
4. *Astronomical Street Light Controller (Single/Three Phase)*
5. *Smart Demand Controller (TMDR52)*
6. *Smart Data Logger (TMF15DL)*

## **ETI IoT (Internet of Things)**

1. *AMF Graphical User Interface (GUI)*
2. *IoT Web solution for GENSET (DIGILIVE.CO.IN)*
3. *Web solution for Energy Management System (METERDEKHO.COM)*
4. *Android Application for RMS of GENSET (EDGTRAK)*
5. *Android Application for EMS of GENSET (IOT EMS)*

# ETI GENSET

**WE PROVIDE ENERGY AND AUTOMATION SOLUTIONS FOR EFFICIENCY  
AND SUSTAINABILITY**

## PROGRAMMABILITY

User friendly and site programmability of various inputs and outputs as more than 1000 settings can be done.

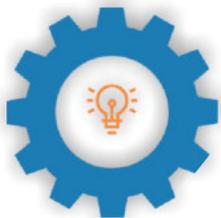
## FAULT DETECTION

Designed to detect engine faults like LFL, HCT, FAN Failure, High Temperature to keep safe your generators.



## COMMUNICATION

Ready for Smart IOT (Internet Of Things) with Enertrak GPRS Modem and data can be seen on Website where ever you go.



## RANGE OF MEASUREMENT

Controller's are featured to allow both flexible as well as precision to operate over a wide range of input voltages, current and output power levels.

# GENSET CONTROLLER AND PROTECTION UNIT

EAMF-9920 | EAMF-9924 | EAMF-9940 | EAMB-600 | DGMC-500 | EEPL-666R | EEPL-333

## EAMF-9920



### Import Substitute AMF Controller

- Automatically transfer between Generator and Mains
- Multiple parameters display on Graphical LCD
- 100no's of fault logging
- Generator/Load Power Monitoring (kW, kVA & Pf)
- Real Time Clock for accurate fault logging
- RS-485 MODBUS enabled



## EAMF-9924

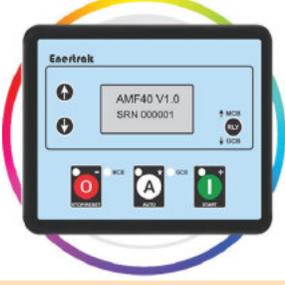


### Advance AMF Controller

- Fully configuration via PC using USB, RS-485 communication and CAN communication
- 10 variable digital input / 2 fix digital input
- 5 Variable digital output / 3 fix digital output
- Remote Start / Stop using wire or also using GUI & Mobile App



## EAMF-9940



### Basic AMF Controller

- Automatically transfer between Generator and Mains
- Multiple parameters display on Graphical LCD
- Both RS-485 & CAN Communication enabled
- Generator/Load Power Monitoring(kW, kVA & Pf)
- Real Time Clock for accurate event logging



## EMAB-600



### BTS Tower Management Controller

- 3nos analog inputs - resistive type
- Reverse battery Protection & Stable Regulated Power Supply with LDO Output up to 55V
- Over Voltage Protection
- Temperature Monitoring & In Built Static Relay Drivers
- RS485 port is provided for supporting the remote



## DGMC-500



### Basic Manual Genset Controller

- 2 Row, 16 Character LCD Display
- 3 nos analog input - resistive type
- 7 Fixed digital input & 4 fixed digital output
- RS-485 Communication
- Display and measurement of Oil Pressure, Water Temperature, Fuel Level in %



# GENSET CONTROLLER AND PROTECTION UNIT

EAMF-9920 | EAMF-9924 | EAMF-9940 | EAMB-600 | DGMC-500 | EEPL-666R | EEPL-333

## EEPL-666R



### Engine Protection & Semi-Auto Controller

- 2 Row, 16 Character LCD Display and 3 nos Analog Input - Resistive type
- RS-485 Communication
- Logging of Fault History & visible in display
- Display and measurement of Oil Pressure, Water Temp., Fuel Level in %, Sensor Failure and Battery Status
- Logging of fuel consumption & visible in display



### Engine Control Unit

- LED Bar Display and 3 nos Analog Input - Resistive type
- Additional Prevention circuitry for FAN jamming
- BAR graph measurement of Oil Pressure, Water Temperature, Fuel Level
- Display and measurement of Run Hour, Battery Voltage & Service Hour.
- 5 no's of digital input & 1 no's for charging alternator

## EEPL-333



EAMF-9920   EAMF-9940   EAMF-9924   EMAB-600   DGMC-500   EEPL-666R   EEPL-333

DISPLAY TYPE	Graphical LCD	Small LCD	Graphical LCD	Graphical LCD	16x2 LCD	16x2 LCD	7-SEG LED
<b>SALIENT FEATURES</b>							
Variable Digital Input	04	04	10	07	NA	NA	NA
Variable Digital Output	05	05	05	10	NA	NA	NA
Fixed Digital Input	NA	NA	02	NA	06	06	06
Fixed Digital Output	01	01	03	NA	04	04	02
Analog Input	03	03	03	03	03	03	03
Mains Sensing	YES	YES	YES	YES	YES	YES	NA
DG Fan Fault	NA	NA	YES	NA	NA	YES	YES
BTS measurement	NA	NA	YES	YES	NA	NA	NA
CAN BUS	YES	YES	YES	NA	NA	NA	NA
USB	YES	YES	YES	YES	YES	NA	NA
RS-485 MODBUS	YES	YES	YES	YES	YES	YES	NA
Relay driver amp rating	500mA	500mA	500mA	500mA	500mA	500mA	500mA
Relay driver IC	1xvnxq/2xvnd	1xvnxq/2xvnd	2xvnxq/1xvnd	3xvnxq	1xvnxq	OEN Relay	OEN Relay
Fault Log	1-100	1-100	1-100	1-100	1-50	1-50	NA
Event Log	NA	NA	101-210	NA	1-10	1-10	NA
IOT	Enabled	Enabled	Enabled	NA	Enabled	Enabled	NA
Remote Mode	YES(1-I/P)	YES(1-I/P)	YES(1-I/P)	NA	YES(2-I/P)	YES(2-I/P)	NA
Charging Alt. Input	YES	YES	YES	NA	YES	YES	YES
Dimension for Cutout (MM)	118x92	118x92	118x92	118x92	118x92	92x92	92x92
*Device ID - 1 to 247 & Parity - None Baud rate - 9600							

# GENSET CONTROLLER AND PROTECTION UNIT

EAMF-9920 | EAMF-9924 | EAMF-9940 | EAMB-600 | DGMC-500 | EEPL-666 | EEPL-333

## Key Features:

- Exact Import substitute with exact terminal connections
- Measured accuracy Class 1.0 default / Class 0.5s (Optional)
- Automatically transfer between Generator and Mains
- 4-20mA Sensor Input\*
- Multiple parameters display on Graphical LCD
- Enertrak configuration GUI PC software for settings
- IP 65 rating with optional gasket
- Compatible with wide range of CAN engines\*
- Real Time Clock for accurate event logging
- Generator/Load Power Monitoring(kW, kVA, Pf)
- Generator/Load Current Monitoring and Protection
- Generator Over Load Protection
- 10 variable digital input / 2 fix digital input\*
- 5 Variable digital output / 3 fix digital output\*
- 3 fix analog input\*
- Engine Run Time Scheduler
- Battery Voltage Monitoring
- Starts on low battery voltage
- Configurable Remote Start Input
- Shutdown warning and protection during fault condition
- Alarm indications on LCD
- 150 no's of event logging\*
- Fuel & Start Outputs
- BTS sensing compatible\*
- CAN BUS compatible\*
- Remote Start / Stop using wire or also using GUI & mobile App\*

\* Customized Features as per requirement.

## Communications:

- CAN PORT communicates as per J1939 for seamless integration between Engine Monitoring Unit & AMF Controller.
- 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.co.in](http://www.digilive.co.in) as well as Android App 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.
- Ready for Smart IOT (Internet Of Things) with Enertrak GPRS Modem.

## Technical Specification:

### Specification

### Description

#### DC SUPPLY

**CONTINUOUS VOLTAGE RATING**  
8 V to 32 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 415 Vac (L - N)  
121 V to 719 Vac (L - L)  
**FREQUENCY RANGE (AMF)**  
10 Hz to 70 Hz

#### MAINS (UTILITY)

**VOLTAGE RANGE**  
70 V to 415 Vac (L - N)  
121V to 719 Vac (L - L)  
**FREQUENCY RANGE (AMF)**  
10 Hz to 70 Hz

#### INPUTS

**DIGITAL INPUTS**  
Negative Sensing  
**ANALOGUE INPUTS**  
Resistive sensor  
Can also be configured as Digital Input

#### OUTPUTS

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

#### ENVIRONMENTAL

**OPERATING TEMPERATURE**  
-10°C to +65°C  
**STORAGE TEMPERATURE**  
-25°C to +70°C

## Mechanical Specification:

AMF Controller:

#### OVERALL SIZE

138.5 mm x 113 mm x 40 mm

#### PANEL CUTOUT SIZE

118 mm x 92 mm

EEPL-666R/EEPL-333:

#### OVERALL SIZE

96 mm x 96 mm x 65 mm

#### PANEL CUTOUT SIZE

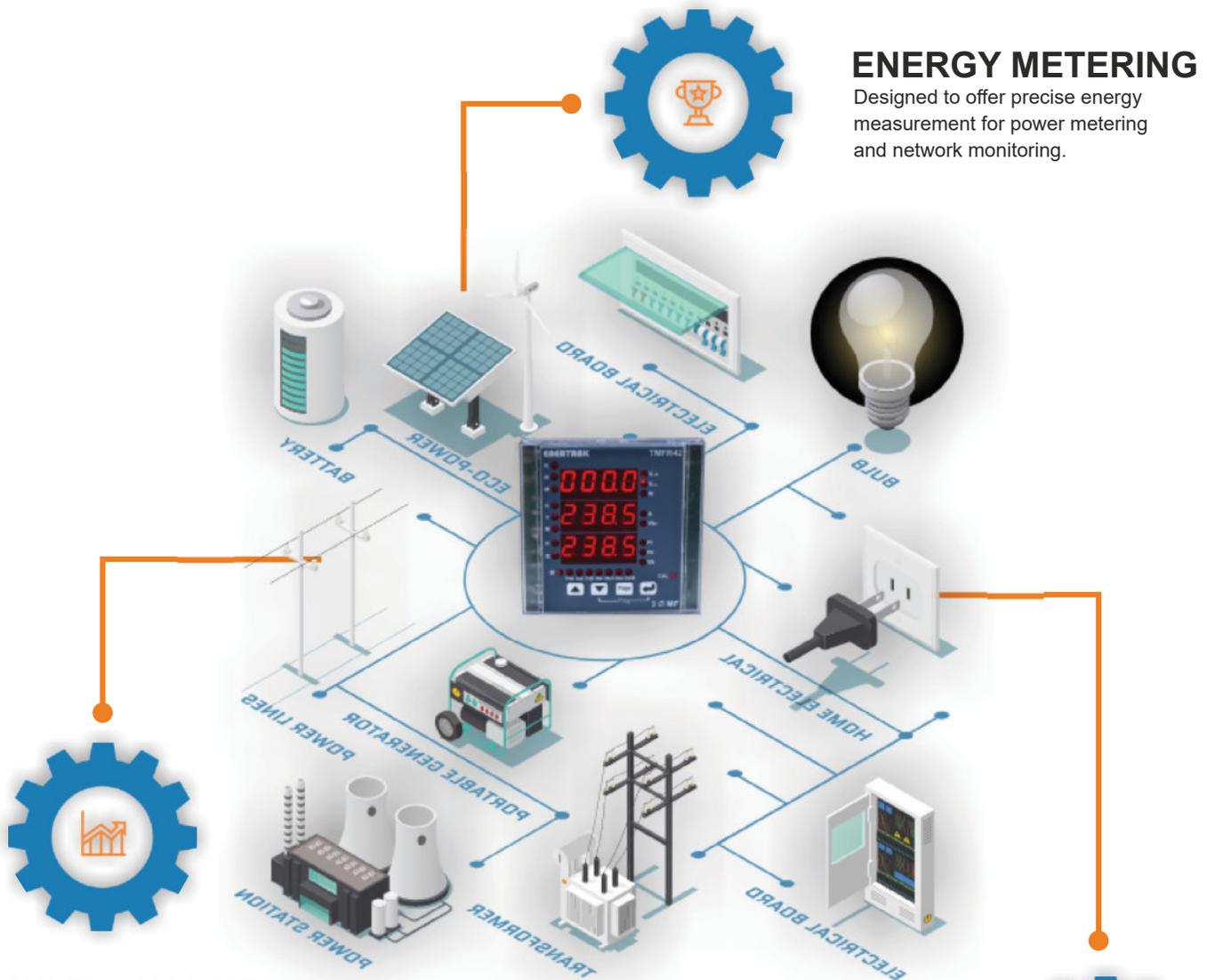
92 mm x 92 mm

# ETI POWER

**WE CREATE THE ENERGY TECHNOLOGIES OF THE FUTURE AND IMPROVE  
THE POWER NETWORKS THAT WE DEPEND ON TODAY**

## ENERGY METERING

Designed to offer precise energy measurement for power metering and network monitoring.



## MULTI-CHANNEL METER

Compact meters with the ability to monitor multiple channels that are ideal for data centers, apartments, commercial complexes billing.

## MULTIFUNCTION METER

High performance digital meter for simultaneous measurement of electrical qualities like voltage, Current, Power, Energy, Frequency, Power factor.

# MULTIFUNCTION METER AND POWER ANALYZER

Power Analyzer | Multifunction Meter | Dual Source Energy Meter | VAF Meter | Voltmeter | Ammeter

EIPL720CR



## Smart Power Analyzer Class 0.2

- Signal Processor Micro Chip
- Various choice of Bright LCD display
- Voltage / Frequency Deviation
- Demand/Max./Min./Over-Limit alarm
- Harmonics V/A 2<sup>nd</sup> to 63<sup>rd</sup>
- Total Harmonic Distortion (THD)



EIPL56ER



## Smart Load Manager Class 0.5

- Signal Processor Micro Chip
- 7 Segment Bright LED Display
- RS 485 interface (Modbus-RTU)
- Real Time Measurement of Demand
- Total Harmonic Distortion (THD)
- Front case protection degree Ip54



TMFR28



## Digital Multifunction Meter

- 32 Bit, 100 Pin, Processor
- Various choice of bright FND/LED STN display.
- Higher class of Accuracy.
- MODBUS Protocol.
- RS485 interface.



## Single / Dual Source Energy Meters

- RS-485 MODBUS Communication.
- CT operated Panel Mounted & Wall Mounted.
- Parameters and kWh values are store even if supply goes off
- Available in Single lineLED,2line LED and 3 line Reverse STN LCD Models.
- Vrms & Irms based kWh metering

TDSR-10



TMF-25



## Digital VAF Meter

The meters have been designed to meet the harsh conditions of Indian Utilities and have following special features & applications :

- Programmable on site CT ratio
- Electrical Control Panels
- Motor Control Panels
- HT/LT Panels



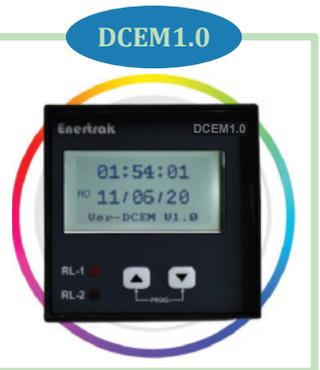
# MULTIFUNCTION METER AND POWER ANALYZER

## Product Selection Chart



### DC Energy Meter

- Integrated with 24 Bit Sigma Delta front end, ensuring a high degree of precision in energy management.
- 32 Bit, 100 Pin, Processor with inbuilt RTC.
- 128\*64 Graphical customized LCD display.
- Higher class of Accuracy.
- MODBUS Protocol.
- RS485 interface.



PARAMETERS	EIPL720CR	EIPL56ER	TMFR42	TMFR28	TDSMR42	DCEM1.0	TMF25	TEN44	TDSR10	AMP	VOLT
<b>DISPLAY TYPE</b>	LCD	7-SEG LED	7-SEG LED	7-SEG LED	7-SEG LED	LCD	7-SEG LED				
<b>BASIC</b>											
V V <sub>1</sub> V <sub>2</sub> V <sub>3</sub> V <sub>12</sub> V <sub>23</sub> V <sub>31</sub>	√	√	√	√	√		√				√
A A <sub>1</sub> A <sub>2</sub> A <sub>3</sub>	√	√	√	√	√		√			√	
Hz	√	√	√	√	√		√				
RPM	√		√	√	√		√				
Phase Angle V/A	√				√						
Unbalance V/A	√				√						
<b>POWER</b>											
PF PF <sub>1</sub> PF <sub>2</sub> PF <sub>3</sub>	√	√	√	√	√						
W W <sub>1</sub> W <sub>2</sub> W <sub>3</sub>	√	√	√	√	√						
VA VA <sub>1</sub> VA <sub>2</sub> VA <sub>3</sub>	√	√	√	√	√						
<b>ENERGY</b>											
Wh (Import / Export)	√	√	√ (Imp)	√ (Imp)	√			√ (Imp)	√ (Imp)		
VAh (Import / Export)	√		√ (Imp)	√ (Imp)	√						
Run Hours	√		√	√	√						
Power ON hours	√		√	√	√						
Number of interrupts	√		√	√	√						
<b>REACTIVE</b>											
VAR VAR <sub>1</sub> VAR <sub>2</sub> VAR <sub>3</sub>	√		√		√						
kVARh inductive (import)	√	√	√		√						
kVARh capacitive (import)	√	√	√		√						
<b>REACTIVE EXPORT</b>											
VAR VAR <sub>1</sub> VAR <sub>2</sub> VAR <sub>3</sub>	√		√								
kVARh inductive (Export)	√	√	√								
kVARh capacitive (Export)	√	√	√								
<b>THD</b>											
Voltage THD	√(upto 63)	√(1-63)	√	√	√						
Current THD	√(upto 63)	√(1-31)	√	√	√						
<b>DC</b>											
Volt / Amp						√					
Power (Watt)						√					
Energy (kWh)						√					
<b>OPTIONAL</b>											
RS-485	√	√	√	√	√	√	√	√	√		
Dual Source	√				√			√	√		
Class 0.2	√										
Class 0.5		√	√	√	√		√	√	√		

# MULTIFUNCTION METER AND POWER ANALYZER

Power Analyzer | Multifunction Meter | Dual Source Energy Meter | VAF Meter | Voltmeter | Ammeter

## Key Features:

- **0.2S Class to 1.0 Class Accuracy of Active Energy**
- 32 Bit, 100 Pin, Processor
- True RMS, 1 Sec update time sensing measurement
- Real Time Waveform\*
- Voltage / Frequency Deviation\*
- Flicker / Transient\*
- 110 or 415 LL Nominal & Primary Programmable up to 999 kV
- Memory 256k / 2MB / 8MB\*
- Various choice of Bright LCD/LED display
- 2 Digital input & 2 no's relay output
- Demand/Max./Min./Over-Limit alarm
- Running on/ Offhours
- Power on hours
- Bi-directional Energy\*
- Tariff Energy
- Four-Quadrant reactive energy
- Harmonics V/A 2nd to 63rd
- Total Harmonic Distortion (THD)
- Analog output (4-20 mA)\*
- Provision of RTC based load survey.
- RS 232/RS485 interface.
- MODBUS Protocol.

\* Special Features customized against MOQ

## Mechanical Specification:

Digital Panel Meter:

### OVERALL SIZE

96 mm x 96 mm x 48 mm

### PANEL CUTOUT SIZE

92 mm x 92 mm

## Communications:

- 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.meterdekho.com](http://www.meterdekho.com) as well as Android App with User ID & Password details.

## Technical Specification:

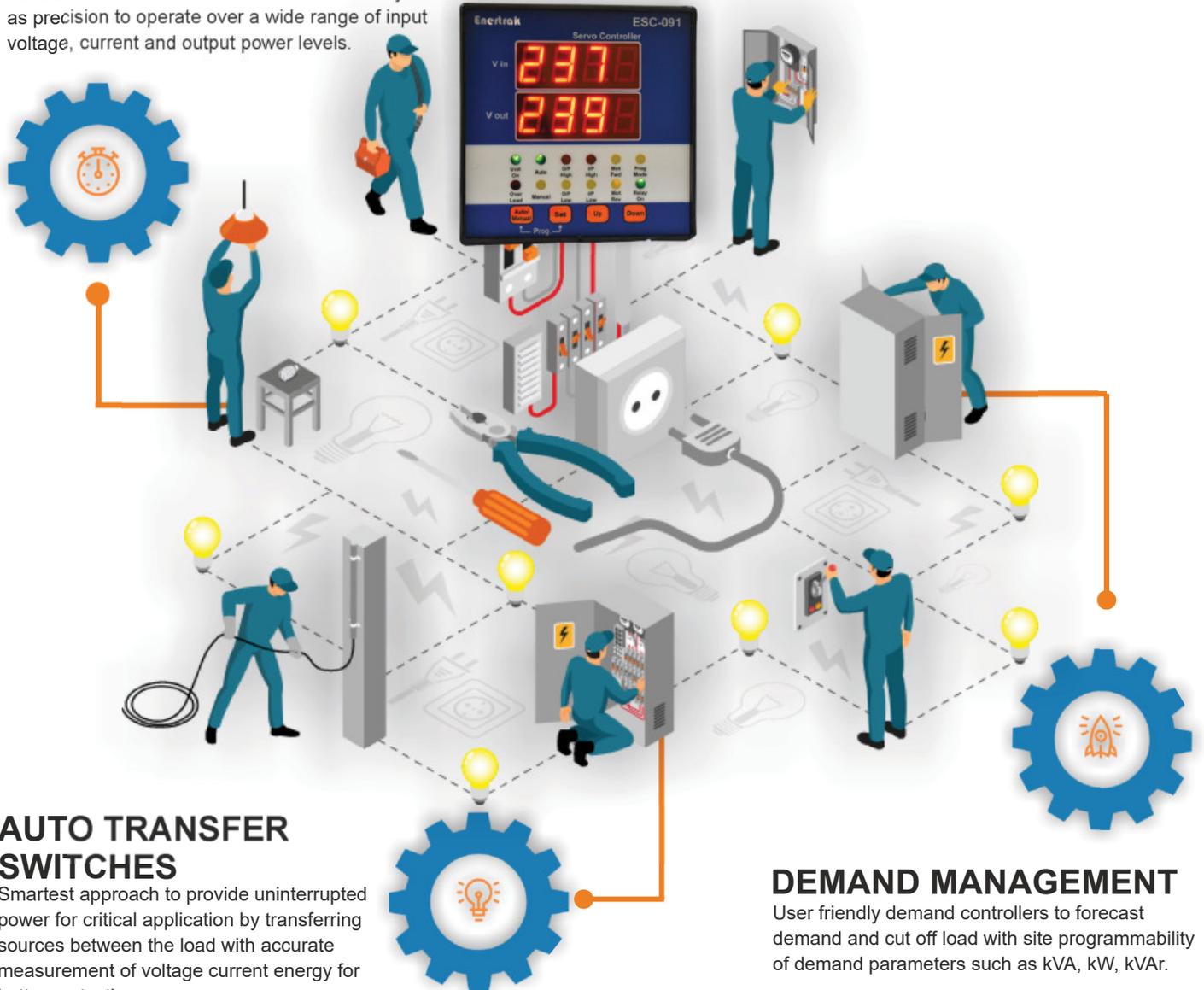
Specification	Description
<b>ACCURACY</b>	V / A - 0.2% (Opt.) & 1.0% P/Q/S/PF - 0.2% (Opt.) & 1.0 % F - $\pm 0.10$ HZ kWh - Cl 0.2S (Opt.) & 1.0 kVArh - Class 2
<b>VOLTAGE INPUT</b>	Rated value - 100 - 380V AC Overload - Continuous: 1.2Vn Instant : 2Vn/10s Burden - $\leq 0.1VA$ (per phase) Impedance - $\geq 1.7$ m Ohm Frequency - 45Hz - 55Hz
<b>CURRENT INPUT</b>	Rated Value - 1A AC, 5A AC Overload - Continuous: 1.2In Instant: 2.1In/5s Burden - $\leq 0.1VA$ (per phase) Impedance - $\leq 20$ MOhm
<b>AUXILIARY SUPPLY</b>	Working range - 80-270V AC, 50/60Hz 100-350V DC Power Consumption - $\leq 5VA$
<b>COMMUNICATION PORT</b>	RS485, Modbus-RTU, 2- wire, up to 38.4kbps
<b>ENERGY PULSE OUTPUT (OPTIONAL)</b>	1 Photo coupler output, pulse width (80 $\pm$ 20%) ms
<b>DIGITAL INPUT (OPTIONAL)</b>	2 AC wet contact inputs, Isolation: 5kVAC
<b>RELAY OUTPUT (OPTIONAL)</b>	2 relay output, contact rated at 5A/250V AC or 5A/30V DC, Isolation: 2kVAC
<b>ENVIRONMENTAL</b>	Operating Temperature -10°C to +65°C Storage Temperature -25°C to +70°C

# ETI SMART

**RELIABLE CONNECTIVITY HELPS ORGANIZATIONS SCALE IoT INITIATIVES WHILE INCREASING THE AVAILABILITY OF THEIR EXISTING INFRASTRUCTURE**

## RANGE OF MEASUREMENT

Controller's are featured to allow both flexibility as well as precision to operate over a wide range of input voltage, current and output power levels.



## AUTO TRANSFER SWITCHES

Smartest approach to provide uninterrupted power for critical application by transferring sources between the load with accurate measurement of voltage current energy for better protection

## DEMAND MANAGEMENT

User friendly demand controllers to forecast demand and cut off load with site programmability of demand parameters such as kVA, kW, kVAR.

# SMART METERING SOLUTIONS

Servo Controller | Prepayment System | Astronomical Street Light Controller | Demand Controller | ACCL | Data Logger

## ESC-091



- **Smart Servo Controller**
- Wide range of Aux supply from 80-300 Vac (With Built in SMPS)
- Manual Mode for field testing.
- Password Protection for securing mishandling by un-authorized Person.
- Scrolling option for Display.
- Green Plug & Play connector for ease for servicing/replacing at site.



## EURO-1



### Smart Dual Source Pre Payment Meter

- 32 Bit Micro controller
- Online Data Monitoring through RS 485 link
- Inbuilt Latching Relay with German Technology
- Direct entry of credit in Rupees to meter without cumbersome keypad entries.
- Deduction of Daily Utility Charges



## EURO-3



### Smart Triple Source Pre Payment Meter

- 32 Bit Micro controller
- Online Data Monitoring through RS 485 link
- Inbuilt Latching Relay with German Technology
- Direct entry of credit in Rupees to meter without cumbersome keypad entries.
- Deduction of Daily Utility Charges



### Astronomical Street Light Controller

- Time zones are programmable through front keys.
- 60 Amp. inbuilt latching relays for disconnection
- Forward energy registration in case of current reversal
- Astronomical calendar Based time setting optionally available
- Under / Over voltage / Over load protection



## TIMR60Z

## TMDR52



### Smart Demand Controller

- Various choice of Bright FND display
- Programmable Load Setting in kW/kVA/Amp
- Additional programmable voltage and frequency setting for tripping
- 2 No's Potential Free Relay outputs
- Demand/Max./Min./Over-Limit alarm



# SMART METERING SOLUTIONS

Servo Controller | Prepayment System | Astronomical Street Light Controller | Demand Controller | ACCL | Data Logger

## Key Features:

### Prepayment System:

- 32 Bit Micro controller
- Inbuilt Latching Relay with German Technology
- Online Data Monitoring through RS 485 link
- Deduction of Daily Utility Charges
- No additional cost of Token Generation
- Direct entry of credit in Rupees to meter without cumbersome keypad entries.
- No Unwanted Trip offs during working days.
- Double password protected online tariff management systems ensuring no additional cost.
- Billing History
- Point of sales (PoS) history
- Customer behavior pattern
- On site programmable over load setting of DG back up
- Anti tamper feature of current.

### Servo Controller:

- Digital Multi Parameter with 7 Segment Bright display for Input Voltage / Output Voltage / Output Current ) Fault indication by LEDs for Over Load / Input High / Output High / Input Low / Output Low
- Manual Mode for field testing.
- Password Protection for securing mishandling by unauthorized Person.

### Maximum Demand Controller:

- Various choice of Bright FND display
- 4 keys for programming input
- Programmable Load Setting in kW/kVA/Amp
- Additional programmable voltage and frequency setting for tripping
- Programmable CT/PT ratio
- Alarms and control optional
- 2 no's potential free relay output

## Communications:

- 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.meterdekho.com](http://www.meterdekho.com) with User ID & Password details.
- For Servo Controllers data can be seen on website [www.servodekho.com](http://www.servodekho.com) with User ID & Password details.

## Technical Specification:

### Specification

### Description

#### VOLTAGE & CURRENT

V : 240 V AC  
I Basic : 5 Amp / 10 Amp / CTO  
I Max : 30 Amp / 60 Amp  
Frequency : 50 Hz  $\pm$ 5%

#### BURDEN

Current Circuit : <2.0 VA per Ph  
Voltage Circuit : <1.5W/8VA per Ph  
Metrology : As per IS  
Class : 1.0  
Normal Power Source: Mains supply  
RTC Backup Source : Lithium Ion Battery

#### DATA RETENTION

Unpowered: 10 years

#### DISPLAY

Format: Customized LCD /  
Seven Segment FND

#### ENVIRONMENTAL

Operating Temp.: -10°C to +65°C  
Storage Temp.: -25°C to +70°C

#### LOAD CONTRACTOR

Minimum of 10000 operations at rated current for resistive loads

#### DISCONNECTION

Latching relay of suitable current rating 20ms pulse operated, No additional power consumption

#### MECHANICAL DIMENSION

PPM / Timer Meter :  
1 Phase : 127×76×190 mm  
3 Phase : 175×76×225 mm

ESC091 / TMDR52:  
**OVERALL SIZE**  
96 mm x 96 mm x 48 mm  
**PANEL CUTOOUT SIZE**  
92 mm x 92 mm

# ETI IoT

**WE WORK AT THE INTERSECTION OF CLOUD, ELECTRONICS, MOBILITY AND ANALYTICS  
TO CREATE SIMPLE, EFFECTIVE AND FUTURE READY DIGITAL SOLUTION**



## WWW.DIGILIVE.CO.IN

DIGILIVE is the latest version of Enertrak cloud based remote monitoring software for AMF control modules.



## INTERNET OF THINGS

Mapping with static locations, real time instrumentation & control, event log tables and automatic system alerts



## DATA ACQUISITION

Real time data recording, data logging and analysis can be used to anticipate breakdowns, reduce downtime, lower service and maintenance cost.



## METERDEKHO.COM

It has been developed to support single and multi-set Controllers thru cloud based remote monitoring software for MF Meters and Controllers.

# SMART IoT SOLUTIONS

AMF GUI | DIGILIVE | METERDEKHO | EDGTRAK APP | EMS SOLUTION |  
EM-100 | EM-102 | EM-103 | EM-104

## AMF-GUI



### AMF-Graphical User Interface (GUI)

- AMF Controller GUI is the latest version of AMF Controller GUI software for Genset control modules. It has been developed to support single and multi-set generator systems. User can control & program all the parameters thru this desktop application.

## DIGILIVE

### IOT Web Solution for GENSET

- DIGILIVE is the latest version of Enertrak cloud based remote monitoring software for AMF control modules. It has been developed to support single and multi-set generator. The software includes mapping with static locations, real time instrumentation & control, event log tables and automatic system alerts. The software can be viewed using laptop, desktop, tablet and smart phone devices.



## Meterdekho



### Web Solution for Energy Management System

- Meterdekho is the latest version of Enertrak cloud based remote monitoring software for Multifunction Meters/Controllers Meters. It has been developed to support single and multi-set Meters. The software includes mapping with static locations, real time instrumentation & control, event log tables and automatic system alerts. The software can be viewed using laptop, desktop, tablet and smart phone devices.

## EDGTRAK

### Android application for RMS of GENSET at your Mobile phone

- DIGILIVE is the latest version of Enertrak cloud based remote monitoring Mobile APP for AMF control modules. It has been developed to support single and multi-set generator. The software includes mapping with static locations, real time instrumentation & control, event log tables and automatic system alerts. The APP can be viewed using smart phone devices.



## IOT EMS



### Android application for EMS of GENSET at your Mobile phone

- IOT is the latest version of Enertrak cloud based remote monitoring Mobile APP for Multifunction Meters. It has been developed to support single and multi-set of meters. The APP includes mapping with static locations, real time instrumentation & control, event log tables and automatic system alerts. The APP can be viewed using smart phone devices.

# SMART IoT SOLUTIONS

AMF GUI | DIGILIVE | METERDEKHO | EDGTRAK APP | EMS SOLUTION |  
EM-100 | EM-102 | EM-103 | EM-104

## EM-102



### IoT MODEM UNIT (2G)

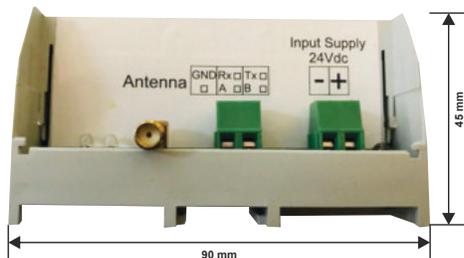
- Compatible with Vodafone / AIRTEL and other 2G networks
- Low Power consumption
- Optical search network mechanism
- Control via AT commands : GSM 07.07, 07.05
- RS 485 and IoT Compatible
- Integrated with PPP, TCP, UDP, FTP & HTTP
- GPRS : Max 85.6 Kbps (Uplink & Downlink)

## EM-104

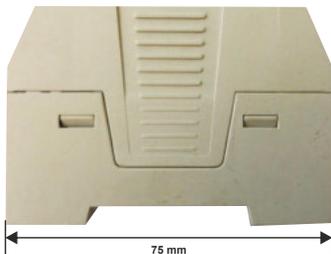


### IOT MODEM UNIT (4G)

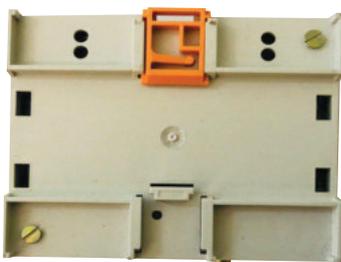
- Compatible with JIO / Vodafone / Airtel and other 4G/LTE networks
- Compact LGA form factor is ideal for small products with tight space and extended operating temperature range
- World wide LTE, UMTS/HSPA+, TD-SCDMA, EV-DO, CDMA and GSM / GPRS / EDGE coverage
- RS 485 and IoT Compatible
- LTE : Max 150 Mbps (DL) / 50 Mbps (UP)



Front View



Side View



Bottom View

## Technical Specification:

### Specification

### Description

#### INPUT SUPPLY VOLTAGE

12 V - 24 V DC  
with Reverse Protection  
AC Power Supply Optional

#### CHARACTERISTIC

Sleep Current : < 4 mA  
Power : 1.3mA @ DRX=5,  
1.2mA @ DRX=9  
Antenna : cellular and GNSS

#### INTERFACES

Power, On/Off, RESET  
RS-485, UART, ADC, NET\_LIGHT

#### GNSS

**Receiver type:**  
GPS L1, BDS L1, GLONASS L1

**Sensitivity:**  
Tracking:  
-158.7 dBm(GPS),  
-158.2 dBm(GLONASS)

Acquisition:  
-149 dBm(GPS),  
-148.5 dBm(GLONASS)

Navigation update rate: 1 Hz

#### SMS

TEXT/PDU  
Point to Point/Cell Broadcast

#### ENVIRONMENTAL

Operating Temp.: -10°C to +65°C  
Storage Temp.: -25°C to +70°C

# SMART IoT SOLUTIONS

AMF GUI | DIGILIVE | METERDEKHO | EDGTRAK APP | EMS SOLUTION |  
EM-100 | EM-102 | EM-103 | EM-104



- RS-485 Enabled Meters
- Easy & hassle free installation terminals
- Can be configured into group of meters
- Recharge can be done thru server & mobile app



RS485 Meters



IoT Modem

- 4G / Wifi connectivity
- Single gateway can connect upto 32 meters
- Capable of transmitting date from meter to server
- Reduce Network operational cost



- Completely user friendly software and do not depend on service provider
- Single Network server can connect upto 5 gateways
- Quick installation and hassle free operation
- 3 months data can be retained from software



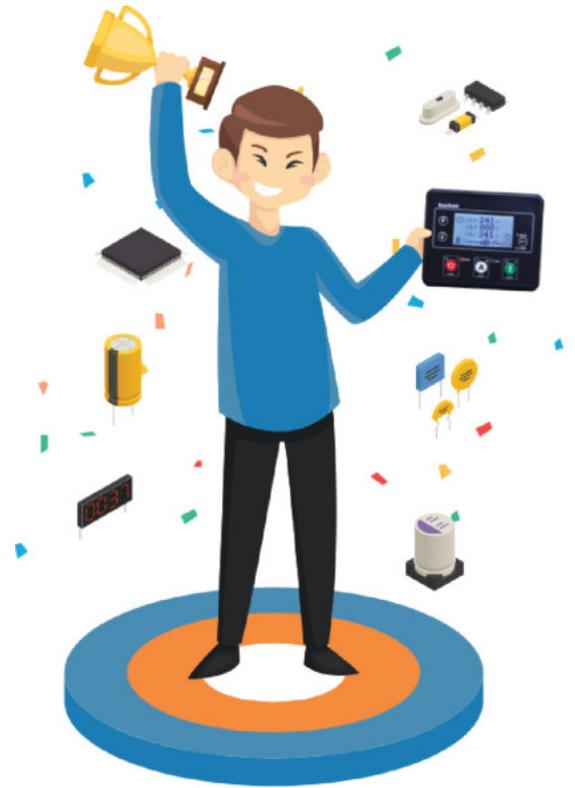
MOBILE APP

- Alarm notifications for low balance, over load, generator Shifting
- One click recharge away from anywhere
- Tracking of Energy consumption
- Tracking and payment of bills



SERVER ROOM

“Great Things Are Done  
By A Series Of Small Things  
Brought Together.”



## Our Key Customers



# Enertrak Instruments Private Limited

IT-3, EPIP, RIICO Industrial Area, Sitapura, Jaipur - 302022 (RAJ)

[www.enertrak.in](http://www.enertrak.in)

Email : [ak.enertrak@gmail.com](mailto:ak.enertrak@gmail.com)/[raj.enertrak@gmail.com](mailto:raj.enertrak@gmail.com)

Contact : +91-8233000062