ENERGY GATEWAY UNIT
Ethernet
RT-EG-IP-XX-R0

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REVISION HISTORY

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1. DESCRIPTION:

Energy Gateway Unit is an Ethernet based solution which takes the Energy and Power related parameters to Remote Server and also executes commands to drive the outputs and configurations.

Energy Gateway Unit has inbuilt 2 opto-isolated input Zones,2 RTD Temperature/Lux zones, UPS battery voltage measurements and two relay controlled output Zones. The output can be operated remotely or through any of the pre-set schedules. The 2 RTD Zones shall be configured as temperature or Lux Zone by using the configurators. Also the device can measure UPS DC voltage upto 140V DC.

The product features are expandable by using the MODBUS RTU—RS485 Port and UART Port through which user can interface IRC, DG Monitoring, UPS Monitoring and Energy monitoring

The product comes with a Software Tool to Configure, Control, Schedule and to Report.

2. FEATURES:

* Ethernet based device indoor
* 2 Analog zones which can be configured and used as temperature or Lux zones
* 2 configurable Digital Zones
* 2 outputs controllable from remote manually and through 4 different schedules
* Isolated UPS battery voltage measurement up to 140VDC
* Provision to interface RS485 modbus – Raxtech IRC-5 relays 2x30A, 3x8A relays with circuit ON/OFF status.
* Provision to interface PROTECH DG monitoring – DG fuel level, Battery voltage through modbus/RS485
* Provision to interface RS485 modbus – 3phase energy meter up to 4 no's.
* Provision to interface UPS through RS232 Port.
* Software utility to configure, monitor, control and to report.
* Power Consumption - 12VDC, 2A

3. PRODUCT SELECTION:

Model	Communication	Remarks
RT-EG-IP- IDEU -R0	Ethernet	Alarm Zones, 2 Relay Outputs, 2 Temperature/Lux Zones, UPS Voltage Measurement

Note: I- IRC interface, E1- for 1 Energy Meter, E2- for 2 Energy Meter, E3- for 3 Energy Meter, E4- for 4 Energy Meter, D- DG monitoring, U- UPS interface,

4. DIMENSION:

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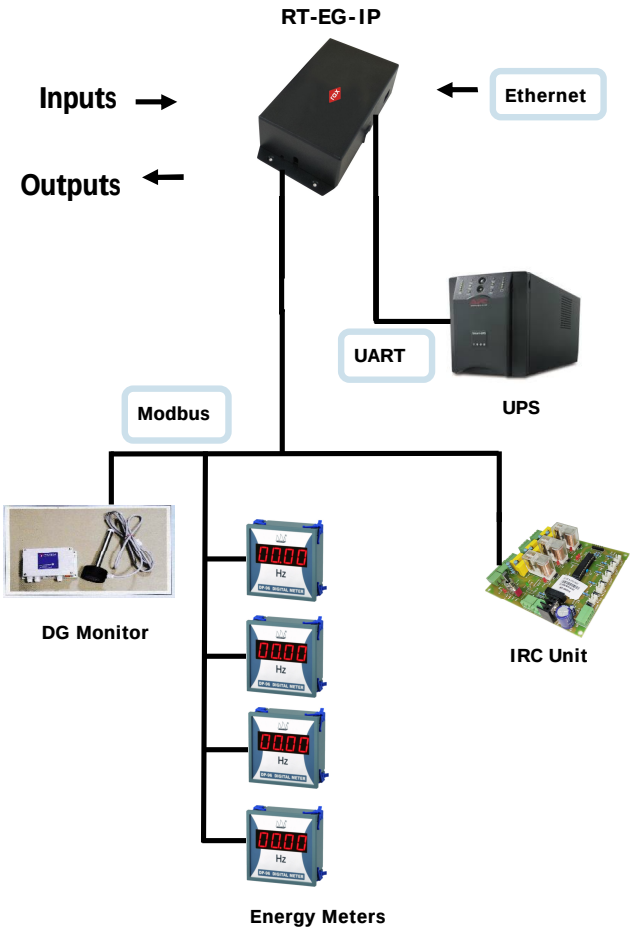
5. TYPICAL CONNECTION DIAGRAM:



6. TYPICAL MONITORING& CONTROLLING PARAMETERS:

Energy Gateway Unit	++IRC Unit(Modbus)	++DG Sensor Unit(Modbus)	++3 Ph Energy METER(Modbus)	++UPS (UART)
2 Zones Alerts	8A Relays- 3 no's 30A Relays-2 no's	Fuel Level	Voltages (in volt)	Battery voltage
UPS battery Voltage monitoring (0-140V)	Load ON/OFF Sensing and alerting	Running Hours	Currents (in Amps)	Backup time
2 Temperature /Lux Zones	Relay operates in Manual mode and 4 schedules	Battery Voltage	Power Factor Frequency(in Hz)	Battery health
2 potential free 5A Relays -CO		Coolant Alarm	Active Power (in kW)	
Relay operates in remote mode and 4 schedules		Oil Alarm	Apparent power(kVA)	
		Generator ON/OFF Status	Phase Reversal Alarm	
		Fuel Low alarm	Electrical Energy(in kWh)	
		Fuel Totalizer		

7. CALIBRATION:

This product is factory calibrated, No field calibration is necessary for the life of this product.

8. WARRANTY:

1 year warranty