

i-Mete Increase Energy Efficiency

Advance Energy Management Meters



Higher Reliability

Measure energy consumption & relay information from meter to cloud through our wireless gateways



Optimise Energy

Efficient usage of smart meters enable reduction in several inefficient power usage



Lower Costs

Regular monitoring of electricity measurement leads to waste reduction thus lower expenses

WHY CHOOSE US?

We have close to 250+ models catering to a wide range of applications. i-Mete meters are designed to be adaptive to the customers requirements & optimum for custom fit applications

- Smart Distribution Panel Meters
- Control Meters
- Advanced Energy Meters
- VAF Meters
- Single Phase Meters
- DC Meters

ABOUT INVENDIS

Invendis technologies is a leading manufacturer of IIOT hardware and software products. It delivers solutions to global customers that facilitate in managing remote assets effectively and efficiently, while optimising energy consumption.



i-Mete - ADVANCED ENERGY MANAGEMENT METERS

i-Mete smart energy meters are most suitable for sub-metering and billing purposes. Combined with our iSense gateway and application platform, we automate DC or AC power measurements, rating and billing reconciliations. Our energy meters measure AC energy from sources such as grid and generator, and measure DC power of sources such as rectifiers, batteries, solar MPPTs and various DC loads.

Invendis smart energy meters are ideal fitment to applications/ systems that measure energy consumption and relay this information from meter to cloud through our wireless gateways. They help the user / process owners in efficient energy management and usage. Regular monitoring of electricity measurement improves consumer awareness leading to waste reduction thus lower expenses.

1ST

Invendis is first in the industry who specializes in delivering efficient, White-Labeled solutions for remote monitoring and energy management for OEMs. Bundled with our wide Array of software solutions, we can design and deliver customizable smart meters based on the OEM Requirement.



COMMUNICATION INTERFACES

Wifi GPRS BACnet RS-485 zigbee

Invendis i-mete enables smart-grid users with innovative systems that enable measurement of energy consumption. Our solutions allow and support multiple wired and wireless communication protocols needed to interconnect the smart metering infrastructure which consists partly of smart meters, data concentrators, smart plugs and in-home user devices. Invendis i-mete supports designers with a unique system-level application know-how and a wide range of energy metering ICs, 8- and 32-bit microcontrollers, highly-efficient power supply and management devices and sensors



HELPING THE PLANET

i-Mete Smart metering significantly increases the efficiency in energy consumption through allowing for more flexible adjustments in homes/offices, and also reduces the number of vehicles needed for field operations/maintenance. This leads to reduced emissions and, as a consequence, fewer impacts of climate change



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i-Mete - ADVANCED ENERGY MANAGEMENT METERS



SMART DISTRIBUTION PANEL METERS

Smart multifunction distribution panel meters monitors and measures all electrical parameters



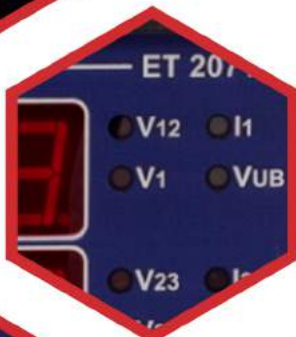
ADVANCED ENERGY METERS

Two way-communication network to control and enable the gathering and transfer of energy usage information in near real-time



CONTROL METERS

Generator controller is precisely designed for automatically switching between the two power sources viz Grid and Generator



VAF METERS

True RMS type digital meters for use in three phase four wire LT electrical systems. The design is based on proven micro-controller technology



DC METERS

Designed to monitor and control DC systems and measure a wide range of parameters such as voltage, current, power and energy



SINGLE PHASE METERS

Single-phase electricity meters are designed essentially to measure energy consumption. This helps and encourage consumers to embrace energy-savvy behaviour to optimize their costs



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i-Mete - SMART DISTRIBUTION PANEL METERS



Invendis Smart multifunction distribution panel meters monitors and measures all electrical parameters such as voltage, current, power factor, active power, apparent power, reactive power, Active energy etc. Our meters facilitate distribution panels with exact, accurate and reliable measurements

APPLICATIONS / USAGE

- Motor control centres
- Control Panels
- Genset Panels
- Power distribution panels
- Domestic appliances
- Electronic equipment
- Power Supplies
- Wiring system

S.NO	Model No	V	A	Hz	kWh	W	VA	VAR	PF	WHE B	VAH	COM Port	V-THD	I-THD	MDI
1	ET-3010				●										
2	ET-4001	●	●	●		●	●	●	●	●	●	●			
3	ET-4021														
4	ET-4041	●	●	●						●		●			
5	ET-5001	●	●	●		●	●	●	●	●	●	●	●	●	●

ET3010



ET4001



ET4021



ET4041



ET5001



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i-Mete - ADVANCED ENERGY METER

Invendis Advanced energy Meters enables two way-communication network to control centre equipment and all the applications that enable the gathering and transfer of energy usage information in near real-time. Advanced energy meter enables remote meter reading for error free data, network problem identification, load profiling, energy audit and partial load curtailment in place of load shedding.

APPLICATIONS / USAGE

Used in industrial and commercial segment where advanced parameters and demand capturing becomes prime factor

Commercial buildings to capture peak load, comparison with sanctioned load etc.

Aids in understanding the imbalance in the system through Neutral current, helps to upkeep the efficiency

S.NO	Model No	V	A	Hz	Port	W	VA	VAR	PF	WHE B	VAH	Relay	V-THD	I-THD	MDI	WHDg
1	ET-5002	●	●	●	●	●	●	●	●	●	●		●	●	●	●
2	ET-5011	●	●	●	●	●	●	●	●	●	●		●	●	●	●
3	ET-6001	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

i-Mete meters capture all parameters and transmit it V, A, F, kW, KVA, kVAR, kWh, kVAh, kVArh, PF, Runhr, Onhr, Intr, Phase angle, THD, Events, Neutral current, Max Demand (with RTC) with 3 relay outputs. The parameters can be integrated with GSM module for data transmission over GPRS.

OPERATIONAL BENEFITS

FINANCIAL BENEFITS

CUSTOMER BENEFITS



Improving the accuracy of meter reads, energy theft detection and response to power outages, while eliminating the need for on-site meter reading



Financial gains to power companies by reducing equipment and maintenance costs, enabling faster restoration of electric service during outages



Detects meter failures early, accommodating faster service restoration, and improving the accuracy and flexibility of

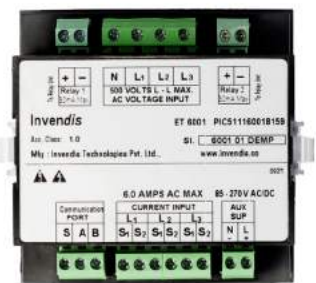
ET5011



ET5002



ET56001



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i-Mete - DC ENERGY METER

Invendis DC Energy Meter (iDEM) is designed to monitor and control DC systems and measure a wide range of parameters such as voltage, current, power and energy. It is an excellent device for monitoring solar PV and wind turbine power generation as well as other DC metering applications such as transportation systems, cellular communication towers, power distribution systems etc

APPLICATIONS / USAGE

The meter is specially designed for Telecom and other DC load measurement.

DC current measurement in Telecom Rectifiers, UPS, Load banks etc. are applications of this meter.

This is used as tenant billing meter for a shared infrastructure towers.



Counter DC Ammeter

Current & Ampere Reading

Ideal for Distribution power panel, Monitor Battery current flows
Ability to monitor and check current flow for any circuit



Counter DC Ammeter

Ideal for Power monitoring requirements in telecom towers

Billing assistance based on distribution of different telecom loads

Coupled with Shunt for current measurement

RS485 interface to Transmit data to a monitoring system / datalogger.

Highly efficient in monitoring energy with any remote monitoring system.

S.NO	Model No	V	A	kW	kWh
1	ET-1113		●		
2	ET-1300	●	●	●	●

- ✓ Energy Billing
- ✓ Commercial Building
- ✓ Residential, hotels
- ✓ Control panels
- ✓ Motor Control Centres



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i-Mete - i-Control ENERGY METER

Invendis Generator controller is precisely designed for automatically switching between the two power sources viz Grid and Generator. This intelligent device senses the availability of Grid and acts as a medium to switch over to Generator when Grid fails and brings the load back to Grid when it is back. The controller comes with Auto and manual operation modes. This compact elegant design makes it a best retrofit for the auto change over operation of generator. LCD on the unit allows user to visualise the operations and faults locally as well to configure the logic driving parameters.



ET 8000

ET 8000 integrates functions required for Automatic Transfer Switch control in Diesel Genset applications. It provides Mains Metering, AMF and ATS control to supplement the primary engine controller. It also provides a high level of system protection, not available with conventional metering, improving reliability and reducing system cost.

- ✓ Automatic transfer of load from source 1 to source 2 for generator applications.
- ✓ Controls generator ON/OFF based on availability of grid.
- ✓ Smooth transfer of load from grid to generator and vice versa
- local start/stop push buttons
- ✓ Built-in 8 I/Os.
- ✓ Ideal for applications in generator ATS panel both in commercial and telecom gensets.
- ✓ Compact design, adaptable for any retrofit uses

Applications & Usage

- ✓ Field Configurable Limits on Mains/Dg Electrical parameters
- ✓ Mains Inhibit for AMF operation by pass.
- ✓ Field Configurable timers / Values on mains and genset
- ✓ Power distribution panels
- ✓ Motor Control Centres
- ✓ Configurable for Single-Dual output for Start-Stop logic
- ✓ Remote Start or Emergency Stop of Engine
- ✓ Unit suitable for 12/24 V DC
- ✓ Separate control for Engine / Contactor control
- ✓ Display electrical parameters

S.NO	Model No	V	A	Hz	ATS	W	VA	VAR	PF	WHld	Run Hr
1	ET-8000	•	•	•	•	•			•	•	•



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i-Mete - VAF ENERGY METER

Invendis VAF meters are True RMS type digital meters for use in three phase four wire LT electrical systems. The design of these meters is based on proven micro-controller technology, resulting in compact and accurate meters. The meter uses state of the art Digital Signal Processing (DSP) circuitry to achieve very high accuracy measurement of True RMS value of all parameters. The meter displays the readings on 3 rows, 3 digit three digital Crisp Super bright LED Displays.



ET 2071

Voltage, ampere and frequency for panel meter

Instantaneous readings of voltage, current and frequency.

Ideal for electrical distribution panels

ET 2081

Voltage, ampere and frequency for panel meter

Instantaneous readings of voltage, current and frequency.

Captures the RPM and run hours

Ideal for Generator Monitoring, electrical distribution panels



Applications & Usage

Commercial and industrial sub-metering

Energy Management System (EMS) applications

Building management and monitoring systems (BMS)

High and medium voltage switchgear panels

LV distribution panels

Control and relay panels

Automation and monitoring systems

Equipment Monitoring

Genset, Solar and UPS applications

In control panel to measure different electrical loads

S.NO	Model No	V	A	Hz	R.Hrs	RPM
1	ET-2071	●	●	●		
2	ET-2081	●	●	●	●	●



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i-Mete - SINGLE PHASE ENERGY METER

Invendis Single-phase electricity meters are designed essentially to measure energy consumption. This helps utilities better manage customer services and encourage consumers to embrace energy-savvy behaviour to optimize their costs. Energy meters used in homes or in small scale industrial application facilitates in keeping a check on energy consumption. This benefits in controlling unnecessary power usage & also helps in protecting appliances from controlling fluctuations in power outages.

S.NO	Model No	V	A	kW	kWh
1	ET-0054	●	●	●	●

Technical Specifications

Type - Single Phase AC

Class - 1.0

Segment - Energy Measurement

Current Range - 0 to 15A

Voltage Range - 85 to 280V

Humidity: <95% non-condensing

Auxilliary Power - Self powered

Display - Single Row 4 digit 7 segment LED.

Captures - V, I, kW & kWh

Additional Feature - Comes with 15A Socket and a Switch.

End Application - Individual Equipment Load Monitoring.



ET 2081

Ideal for monitoring energy usage of individual load.

Retrofit unit with 15A socket to monitor energy usage of any electronic appliances

Unique energy reset feature allows the user to keep a track of energy spend across different appliances

Ideal for monitoring home appliances, machinery loads in small scale/ SME industries

Applications / Usage

- ✓ Household and industrial appliances
- ✓ Appliance energy monitoring with energy reset
- ✓ Air Conditioning and Refrigeration Panels



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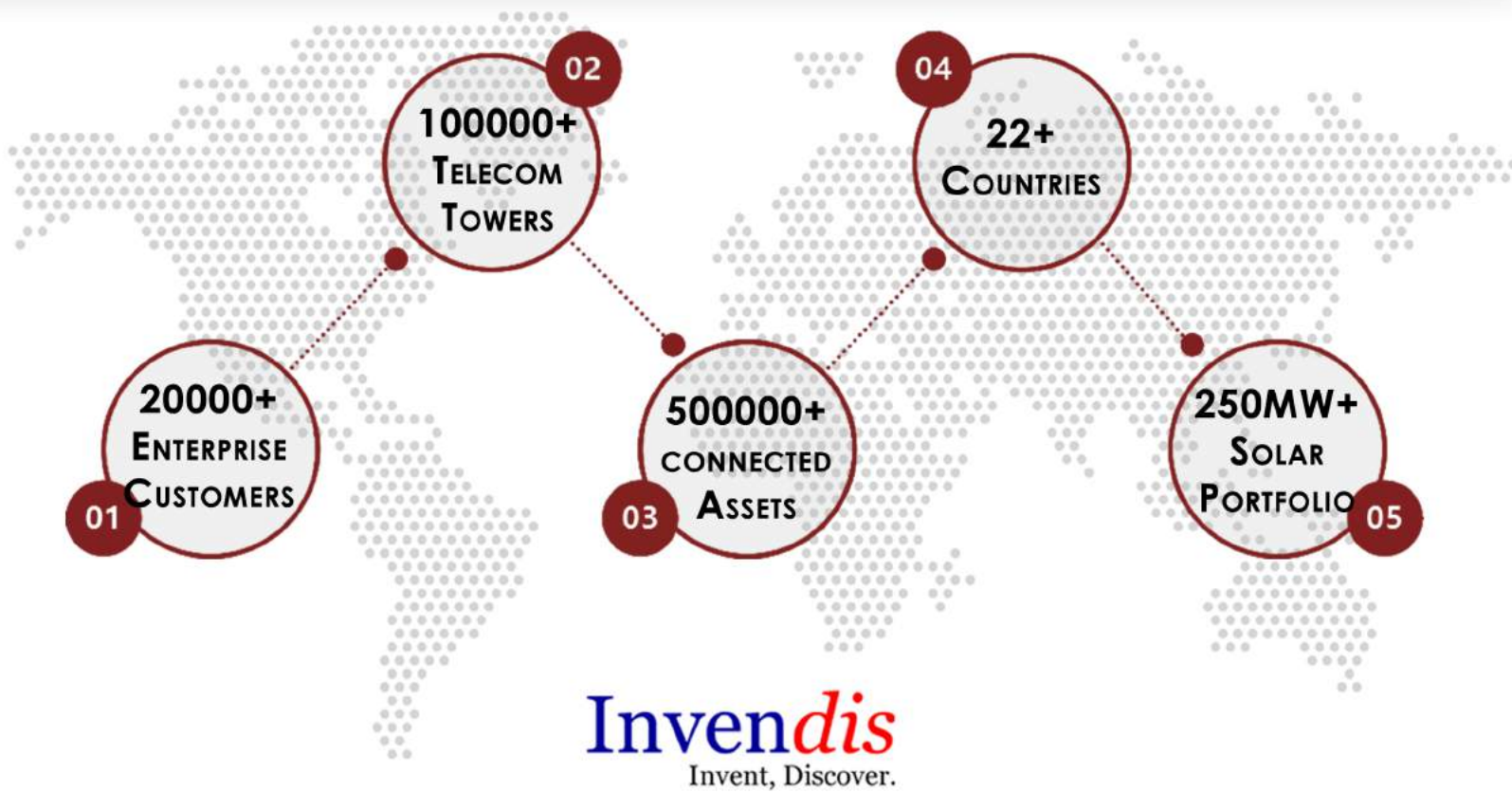


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IIOT FOR TELECOM TOWERS, DISTRIBUTED ENERGY & SUB METERING



Invendis technologies is a global leader, manufacturing IIOT hardware and software products. It delivers solutions across the world to customers facilitating in effective and efficient remote assets management, while optimizing energy consumption.

What we do



Innovative products

We manufacture agnostic IoT, M2M & AI hardware & software products. Our hardware products can be installed in all weather conditions whereas our software can be deployed in VM and in all environments.



Smart & Secure sites

Our products are used to make remote site equipment smart as well as to secure them with advance alarming & notifications transmitted on a near real-time basis.



Empower Field Force

We improve field force productivity with smart mobile applications and empower them with technology to directly access and control site equipment on the go.



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