

ENERGY36

Multi-lines electric meter and analyzer



Active rating

Reactive rating

Apparent power

Harmonic

Voltage

Current

Frequency

Line disturbance

ENERGY36 is compatible with BMS/BAS and energy efficiency projects



Uniphase and triphase line
90V to 660V and 0 to 5000A per line

Measurement



by open tores 20A, 80A, 120A, 300A, 600A, 1500A, 3000A and 5000A

<http://www.energy36.com>

ENERGY36



**Multi-lines
electric
meter and
analyzer**

Energy Efficiency Project



Introduction

The meter **ENERGY36** is designed for the **multi-lines electric counting**. One **ENERGY36** measures and analyzes simultaneously 3 to 36 uniphase electric lines or to 1 to 12 triphase lines.

The data available due to its **network analyser functions** allows to a deep analysis of the electric data.

Easy to implement

1

**Choice of the
electric lines**



2

**Installation of Energy36
by an electrician
within a few minutes**



3

**Exploitation data
on energy management
software or BMS/BAS**



Measurement and analysis



**For each uniphase and triphase lines you can
analyse the following:**

- Active rating
- Reactive rating
- Apparent power
- Harmonic
- Voltage
- Current
- Frequency
- Line disturbance

Advantages

- ✓ open tores measurement
- ✓ cordless communication
- ✓ modular design
- ✓ plug and Play design
- ✓ 5 year-warranty product
- ✓ French design and manufacture



VIDEO

Watch the Videos introducing ENERGY 36

www.energy36.com – home page & introduction page

ENERGY36



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How it works

The meter **ENERGY36** measures different electric lines to a lower cost thanks to the « **open tores** » use which allows a **faster setup**, as well as the **cordless communication** which spares a wire network. Measures up to 5000A per line with open tores "one clic".



Installation 1 clic



ENERGY36 is delivered in a **tight case** which makes it independent from the surface area of the electrical box.



ENERGY36 uses **removable connectors** enabling electricians to **implement easily** and quickly wiring it without clamping screw.

ENERGY36 is **modular** which allows you to exactly adjust the cost of the number of place you want to measure.

Communications between the Energy36's

Modbus wired communication

allows the communication and the collect of the measured data.



Modbus IP communication

is provided through the Modbus serial > IP converter (optional).



Wireless communication

(radio network long range 6km in free field) optimizes installation.



Data visualisation

ENERGY36 is designed to be implemented into the **infrastructure of BMS/BAS and energy management software**, allowing you to view the data collected in your usual tools.

In addition to this integration, we can provide a **touchscreen display to retrieve and display** all the measured data of the multi-line ENERGY36 electric meters.

45

Visualization's leds provides an easy installation and maintenance



VIDEO

Video introducing the structure, the display and use of the data
www.energy36.com – page 'how it works'

ENERGY36

Energy Efficiency Project



Multi-lines electric meter and analyzer



Energy efficiency– BMS/BAS

The **multi-line ENERGY36 meter** fits perfectly to the infrastructure of **BMS/BAS** and **projects of counting and energy efficiency**.

ENERGY36 is the perfect solution for **measuring, collecting and sending** all the needed information to the **energy performance tools**.

Integration example with AREE solution

AREE Datacenter & AREE Building : Energy Management tools that helps you to visualize, follow and analyze in real time your energy efficiency ratings and consumptions.

- Power Supplies
- Electric management
- UPS, Generator
- Air conditioning
- Free cooling
- Humidifier
- Servers, Networks
- Access control
- Fire detection, ...

Datacenter, technical center

- Electric heating
- Boiler
- Air-conditioning sys.
- Technical alarms
- Access control
- Intrusion
- Fire
- Lighting, blinds
- Electricity management

buildings, industries, offices

Communication modbus IP

ENERGY36

collects and sends the necessary measurements to AREE in order to analyze your energy consumption

Communication modbus RTU



Don't hesitate to contact us:

APT France - Tour EUROPA, Av. de l'Europe - F 94320 THIAIS - FRANCE
Tel. : 00 – 33 (1) 48 92 52 50 Fax : 00 – 33 (1) 48 92 78 00

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Technical features

Features	ENERGY36
Multi-measurement for each line (1 to 36 lines)	
Voltage measurement V (V)	✓
Current measurement I (A) up to 5000A	✓
Active power measurement P (W)	✓
Reactive power measurement Q (VAR)	✓
Apparent power measurement (VA)	✓
Frequency measurement(Hz)	✓
Harmonics measurement THD (%)	✓
Line-disturbance measurement	✓
Optimization of setup time	
Open Tore current measurement (to clip)	✓
Wireless network's ccommunication	✓
Parameterization with slot	✓
Automatic correction of phases order	✓
Automatic recognition of communications	✓
45 visualisation's Leds for any kind of defect	✓
Communication	
Long range radio RF communication	✓
Modbus Wired Communication	✓
Mutualisation	
Voltage measurement	✓
Power current	✓
Long range radio RF communication	✓
Modbus Wired Communication	✓
Modularity	
Up to 12 units of current's measurement	✓
Connexion	
Removable and fast connectors	✓

ENERGY36



**Multi-lines
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**Energy Efficiency
Project**



Technical features

Caractéristiques:	ENERGY36
Mesures	Communication
Mesure des Courants de 0 à 5000 Ampères	Communication Modbus filaire RTU
Mesure des Tensions de 90Vac à 600Vac	Communication Radio RF 868MHz entre les ENERGY36 – portée 6 Km en champ libre
Evolutif de 1 à 12 cartes de mesures (de 1 à 36 lignes mono/tri)	1 groupe réseau radio comprend jusqu'à 10 ENERGY36 (soit jusqu'à 360 lignes)
Gamme des Tores ouverts possibles sur chacune des 36 entrées : 20A / 80A / 120A / 300A / 600A / 1500A / 3000A / 5000A	Toutes les données instantanées et les données cumulées par période de chaque ligne sont disponibles en communication Modbus
Caractéristiques générales	Entrées
Pré-paramétrage d'usine	3 types de mesure de tension : Ph+N/3P/3Ph+N
45 Leds de visualisation (états / communication / défaut / connexion)	Jusqu'à 36 entrées de mesure de courant par CT (Tore Ouvert)
Température de fonctionnement : -20°C à + 50°C	4 entrées impulsionsnelles / TOR
Coffret : Dimensions H 341mm / L 291mm / P 128mm - Indice de protection : IP66	1 entrée analogique
Données mesurées pour chaque ligne:	
Puissance / Energie	Qualité
Puissance active (kW) / Energie active (kWh)	Cos Phi / Tan Phi
Puissance réactive (kVAR) / Energie réactive (kVARh)	Harmoniques (THD)
Puissance apparente (kVA) / Energie apparente (kVAh)	Microcoupure
Puissance active max	Fréquence (Hz)
Tension	Courant
Tension min et max	Courant max
Tension moyenne	Courant moyen

Online quote request on www.energy36.com