

Operating Instructions Energy Monitor



4.Front Panel Description

4.FUD display 2-V(AC Voltage), A(AC Current), W (Watt) Select button 3-MODE/Power on button 4-230V AC supply power indication 5-Load power plug 6-SET/CLR (Reset)/exit button 7-TIME display button

8-Set DOWN button 9-Set UP button Note:Tilt battery compartment are on rear of unit.

5.LCD Display

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1. The above figure shows the actural voltage, current, active power values of current metrical. (as follows)

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2.Middle figure show the time of the electric energy meter billing (current time, T1, T2's time) and general energy consumption (as follows)

3. The following figures are used to display current total electricity billing and price setting, and can be budgeted the total cost by every day, every month, year. (as follows)

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These operating instructions belong to this product. They contain important imformation for operation and handling. They omatine observed, even if the product is passed on to a third party. In this regard,keep these operating instructions for future reference.

1.Introduction

With the Energy Monitor, you have acquired a measurement device related according to the most current state of the art. You are now able to determine power costs of your power loads in the easiest way. The Energy Monitor meets with the safety and corresponds with the repuirements of valid European and nationa guidelines. The conformity was proven and the corresponding declarations are available from the manufacturer.

In order to maintain this condition and ensure safe operation, you as the user have to observe this operating manual.

2.0peration

The measurement range of the energy Monitor extends from 50 to 3000W. If values fall below or exceed these limit values, exact measurements are no longer possible.Also the device could be overloaded and thereby destroyed.

The Energy Monitor has been developed for monitoring and measuring electrical loads.

Although the Energy Monitor is very accurate, it is not officially certified for usage by power companies and users for measuring power The Energy Monitor is only certified for operation at 230V AC. The

maximum power of any connected load may not exceed 3000W (max,current 13A).

6.Properties

 Orniperiods
 Monitoring of voltage, current, active power display Max value recording
 of voltage, current, active power.
 Display of used energy and accrued power costs. · Cost forecast.

7 Connection, operation settings Before you connect the Energy Monitor to an outlet or power load, the desired power tariff must be set. Note: when has not turned on the AC230V electric power supply,

presses MODE key to be possible starting to carry on the function . establishment.

A.Display of supply voltage, load current, load active power values. • Immediately after the Energy Monitor is plugged into an outlet, the supply



· Operation of the Energy Monitor is only pemitted in interior spaces Advance of the end of the en

Another use than the one described above leads to damages to the product and is also associated with dangers like short circuit, fire, electric shock,etx. The entrie product may not be converted or modified. The safety instructions must be strictly observed.

3.Safety instructions

We will not assume any liability for damages to items or persons caused by improper handling or non-com-pliance with the safety notices. Any warranty claim will become null and void in such cased.

It must be observed that the conductive ground wire is not broken as this can plse lethal danger in the event of a malfunction

This device is not a toy and does not belong in the hands of children

Only connect the Energy Monitor to certified protected comtact outlets 230V AC/50Hz (10/16A) with a ground wire.

The connected load may mot exceed 3000W(13A)

The recommended operation temperature is between +10 and +40°C. High temperatures, especially during measurement of large power loads, lead to danger of overheating and can thereby permanently destory the Energy Monitor.

B-Display current time setting

Press "TIME" button into current time mode.
 Press "SET/CLR" button into setting mode, "Hour" or "Minute"
 digital will flash display.
 Vhten "Hour" or "Minute" digital will flash display, press "UP" or

Again press "SET/CLR" button the Energy Monitor into normal display current time, when "Hour" or "Minute" digital will Static display.

C.Display the electricity consumption of electric energy billing explorer

Lospage the declaracy consumption of declarac energy bining explore and the setting of time and billing.
 Press MODE button between LCD display on and kwh, that mean the total power consumption; at this time press the SET/CLR key will clear all data.

 Press MODE button between LCD display Time, mean the time of current total power consumption: at this time press the SET/CLR

 •Press MODE button to set the starting point of electricity time.
 •Press MODE button to between LCD display display T1 and Time, mean the start time of T1, now press the SET/CLR button to set the starting point of T1 electricity time.

 Press MODE button between LCD display display off. T1 and Time. Press Mode Dudon to weeken LCD uspage uspage on, if and time, express the end of time of T1, now press the SET/CLR key to set the starting point of T2 electricity time.
Press MODE button between LCD display display on, T1 and kwh, mean the electricity consumption of period T1, now press the

SET/CLR key to set the Price of Electricity of 11. •Press MODE button LCD between display on, 12, that means power consumption of 12, now press the SET/CLR button to set the electricity price of T2 time.

Avoid operating under adverse environmental temperatures and near flammable gased, vapours and dust.

For reasons of safety, never allow the device to be operated when wet or in a damp environment

When cleaning or servicing, the device must be disconnected from everysource of operation volatge

Condesers in the device may still be charged, even if the device was disconnected from all voltage sources.

In schools, training facilties, hobby and self-help workshops, pualified personnel must supervise the operation of measurement units

In commercial institutions, make sure you observe the accident prevention regulations of the commercial trade organization for electric installations

Do not insert needles, metals or any oteh objects into the device.

If it has been ascertained that safe operation is no longer possible take the device out of opertation and secure it against accidental reactivation. It can be ascertained that safe operation is no longer possible if the derive shows visible damage, no longer works correctly, has been stored for a long period under unfavourable conditons or has been placed under heavy stesses in transport.

If the long time does not use, please take the Energy Monitor internal batteries preservation in the dry place.

 Press MODE button between and following LCD screen display Press MODE buttom between and intowing LCb Screen usplay kwh and Day, show that according to the unit price you setting you can buget total cost of electricity by day.
Press MODE button between and following LCb Screen display kwh and Month, show that according to the unit price you setting

Press MDDE button between and following LCD screen display kwh and Yacr, show that according to the unit price you setting you can buget total cost of electricity by month.

. The specific set ways as follows:

Г	The total electricity consumption in the medium screen(hour). The total cost of electricity under Screen(Total)
l	Press MODE
	The total electricity consumption in the medium screen(kwh), the total cost of electricity under Screen(Total)
l	Press MODE
	The current time in the mediun screen (Time), the total cost of electricity under Screen(Total)
l	Press MODE
	The strating time of T1 in medium screen (on), the total cost of electricity under Screen(Total)
l	Press MODE
	The ending time of T1 in medium screen (off), the total cost of electricity under Screen(Total)

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Press MODE

The total electricity of T1 in medium sc (kwh), The total electricity correct

n(Total)

Press MODE

in the

The total electricity of T2 in medium screen(koh), the total cost of electricity under Screen(Total) Press MODE Daily Budget of current total power consumptional current power in medium screen, daily budget of current total cos of electricity under screen

Press MODE monthly Budget of current total power consumptionat current power in medium screen, monthly budget of current total cost of electricity under screen

Verify Budget of current total power consumptionat current power in medium screen, yearly budget of current total cost of electricity under screen

8.Replacing the battery

Press SET into the cost of T1's

setting(Price), press UP/DOWN adjust, press SET affirm

Press SET into the cost of T2's setting(Price), press UP/DOWN adjust, press SET affirm

6 repracing the pattery When the LCD loses contrast, immediately replace the battery of the device. The Energy Monitor requires two 1.5V "AAA" batteries. For replacing the battery, proceed as follows: "Jurn the screw of the battery compartment and remove the battery compartment.

compartment. -Remove the used batterty from the Energy Monitor and replace it with two new 1.5V "AAA" batteries. Observe correct polarity when inserting the battery. -Replace the battery compartment cover and refasten the screw.

9 Additional notes

9 Additional notes The connected loads should be operated as normal when producing the cost forecast if an exact cost forecast is to be made per week/ month/year for a power load, we recommend leaving the energy monitor connected to the load for a least one day. The energy monitor can thereby calculate an average power/load and accrued costs near assumeth. The langer the forem Monitor is associated the more accurately. The longer the Energy Monitor is connected, the more accurate is the cost forecast.

The power supply on a power net is never constant and varies from place to place. For example, a voltage fluctuation of 1% per second for a calculated cost forecast over 5 minutes will never be as accurate as a cost forecast taken 3 hours.

Some devices use more current than others immediately after switching on. The current usage decreases the longer the device is use (warm -up phase).

10.Maintenance

Regularly inspect the Energy Monitor for damage.
 For cleaning the device and LCD, only use a dry, soft cloth. Do not
 use any cleaning solutions.
 Never immerse the device in water.

Maintenance or repairs may only be performed by a technician familiar with associated regulations.

Technical data

)
, W)
ed contact plug/outlet
play at approx. 3000W ore than 3000W will device.
typical (max. ±2% for Measurements up
/; max, ±4% for
ents over 2500W)
(AAA)" batteries.
not turned on 230V
nliance automatic
n's time probably is
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wh

Active and apparent power Energy(kwh)and costs(Total) Dimensions(L x W x H) Weight

11.Liability exclusion

approx.140×72×43mm 214g

1W

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 Manufacturers and distributotors take no responsibility for incorrect measurement values or the results of such values.
 This product may not be used for medical purposes or published informatics. information.

 This desice has been developed as an indicator for current usage Inits desice has been developed as an indicator for current usage
and energy costs. Despite the high accuracy of the device, it is not
to be used official calculation between power providers and users.
 The technical data of the device can be changed without prior notice.
 The product is not a toy-keep it away from children.
 These instruction or declarations may only be reproduced with the

permission of the manufacturer.

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