

**EWATTCH**

CONNECTED SOLUTIONS FOR ENERGY CONTROL

TOOLBOX-ETH-GPRS

Toolbox User Guide

TABLE OF CONTENTS

Hazards and Warnings	03
Certifications and Conformities	03
References	04
Presentation	05
Connection	06
Toolbox configuration	07
Technical specifications	12
Contact	13

HAZARDS AND WARNINGS

Manufacturer cannot be held responsible for failure by user to comply with the instructions in this manual.

Any service performed on this product must be completed by a qualified individual.

Replacement of this product must be performed by a qualified individual.

Failure to use this equipment in accordance with the specifications in this documentation could lead to a hazard.

No parts in this device should be replaced or removed.

Disconnect all power supplies before servicing the equipment.

CERTIFICATIONS AND COMPLIANCES

CEM

- EN 61000-6-2 Immunity for industrial environments
- EN 61000-6-3 Emissions for residential environments
- EN 55022 Immunity IT equipment

Radio

- EN 300220

Sécurité

- EN 60950 Information processing device



REFERENCES

Products only :

TOOLBOX-ETH

Toolbox without accessories communicating via Ethernet only.

TOOLBOX-ETH-GPRS

Toolbox without accessories communicating via Ethernet and GPRS.

Kits :

KIT-TOOLBOX-ETH

KIT-TOOLBOX-ETH-GPRS

Kits with a TOOLBOX-ETH or a TOOLBOX ETH-GPRS, respectively, and all necessary accessories: a 5VDC power supply unit (ref: ALIM-BLOC-5V) and an adjustable antenna (ref: ANT-360-20CM)

Accessoires

ANT-360-20CM

20 cm orientable antenna

ANT-MAGN-SUP

Antenna with magnetic base

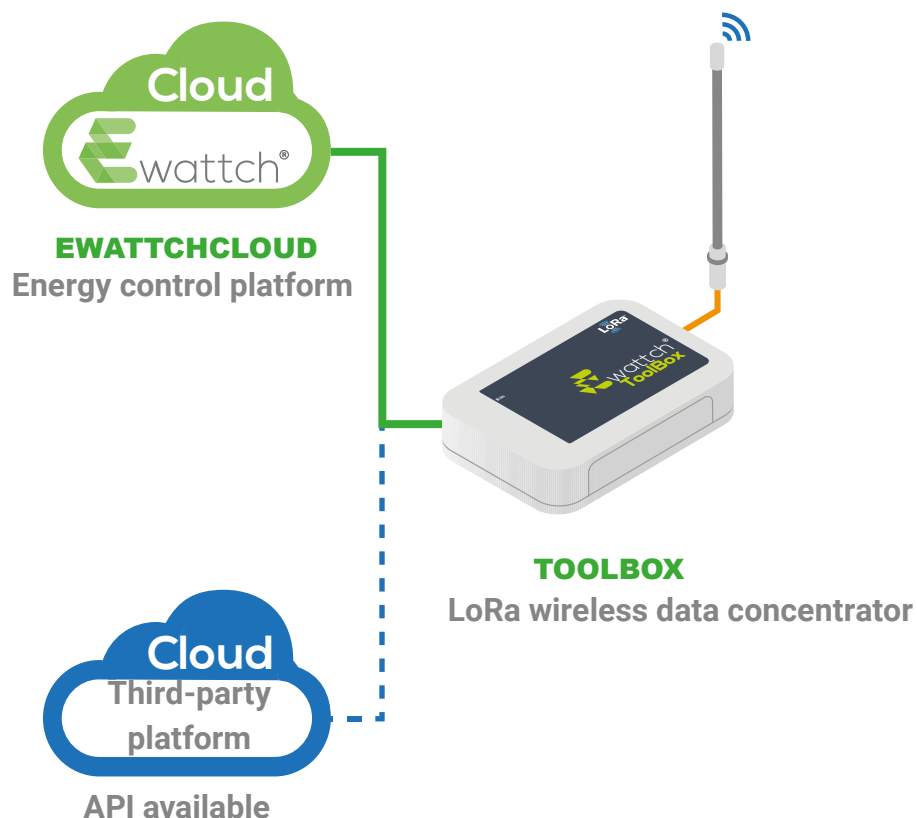
ANT-LONGPORT

Omnidirectional fiberglass antenna (supplied with wall mount)

ALIM-BLOC-5V

230VAC power supply - 5VDC power pack

PRESENTATION



PRODUCT DESCRIPTION

The TOOLBOX is a data concentrator, developed by our engineers, which receives the information sent by the wireless sensors on the LoRa® network.

The TOOLBOX then transmits the data over the Internet, via Ethernet or the GPRS communication module, to the EwattchCloud server, or a third-party server.

CONNECTION



Power connector

Ethernet connector



LoRa® antenna connector

GPRS antenna connector (optional)

TOOLBOX CONFIGURATION

Connecting the Toolbox

The first step in the configuration is to access the Web application by connecting to the TOOLBOX using an Ethernet connection.

Follow these steps :

- Connect the TOOLBOX to a router with DHCP enabled.
- Connect a computer to this same router
- Type in your browser: **http://ewattch_toolbox**
(on Mac, click **http://ewattch_toolbox.local**).

Alternative method:

Connect the toolbox to a computer directly using an Ethernet cable.

After configuring your computer's network settings with a compatible address, type in your browser: **192.168.1.115**

Unit information



Configuration de l'Ewattch Toolbox

Informations Boîtier

LoRa

Configuration Réseau

Ewattch Cloud

WiFi Power

Mise à jour

Informations du Boîtier

Version du Firmware: 1.0.57
Adresse MAC: d8:80:39:b3:ec:0d
API KEY: 6430D6827F87DCF6E415F95C149CE2EB
Ewattch cloud: connecté
Fuseau horaire: UTC :

Firmware version	Checks the current version of the ToolBox firmware and notifies you if an update is necessary.
MAC Address	Unique product address. This is needed when configuring the ToolBox on the EwattchCloud or third-party server.
API KEY	Security key that will be requested when configuring the product on the EwattchCloud or third-party server.
Ewattch cloud	Indicates whether the ToolBox is connected to the EwattchCloud or third-party server.
Time zone	Configures the time zone of the product.

LoRa®



Configuration de l'Ewattch Toolbox

Informations Boîtier

LoRa

Configuration Réseau

Ewattch Cloud

WiFi Power

Mise à jour

LoRa

Cette page permet de configurer le récepteur LoRa

Canal du recepteur LoRa:

Liste des capteurs LoRa détectés:

squid 399 14/11/2017 16:05:08 -62 dbm

squid 401 14/11/2017 16:30:09 -64 dbm

LoRa® receiver channel

Configures the LoRa® channel on which the ToolBox will listen. The channel must be identical to the one configured on the LoRa® sensors.

List of detected LoRa® sensors

Lists the LoRa® sensors received by the ToolBox with the moment of the last reception. If this list is empty, it is likely that a bad channel has been selected or the sensors are out of range.

Informations
Boîtier

LoRa

Configuration
Réseau

Ewattch Cloud

WiFi Power

Mise à jour

Configuration Ethernet

Cette page permet de configurer l'interface Ethernet de la toolbox et l'authentification pour accéder au serveur web interne

ATTENTION: Un mauvais réglage peut entraîner la perte de la connexion avec la toolbox.

Entrer la nouvelle configuration de l'interface réseau ici:

Adresse MAC:

Nom d'hôte:

☒ Activer DHCP

Adresse IP:

Passerelle:

Masque:

DNS primaire:

DNS secondaire:

☒ Activer Proxy HTTP

Serveur:

Port:

Redémarrer l'interface

☐ Utiliser l'authentification pour accéder aux pages web internes

Configurer l'authentification

MAC Address

Unique product address. This is necessary for configuring the ToolBox on the EwattchCloud.

Host name

ToolBox host name configuration

Warning: changes to the host name means the address to connect to the ToolBox will become: `http://<host name>`.

Activate DHCP

If this box is checked, automatic configuration of the ToolBox is activated. Otherwise the configuration settings must be entered manually using the following fields: IP Address, Gateway,

Activate HTTP proxy

If this box is checked, the ToolBox will use the proxy configured for its communications. This proxy must be one that does not require authentication.

Restart the service

Save and apply configuration changes.

EwattchCloud or third-party platform



Configuration de l'Ewattch Toolbox

Informations
Boîtier

LoRa

Configuration
Réseau

Ewattch Cloud

WiFi Power

Mise à jour

Configuration Ewattch Cloud

Cette page permet de configurer l'envoi des données vers un cloud compatible ewattchCloud

- ☐ Ne pas utiliser ewattchCloud.fr
☒ Activer le mode historisation en cas de coupure de communication

Configurer le serveur

From this page, you have the option not to send the toolbox data to the Ewattch servers, but instead to a server of your choice.

Server Domain name of selected server

Path Path that the toolbox should use to send data to the server

Configure the server Save and apply configuration.

Updating



Configuration de l'Ewattch Toolbox

Informations
Boîtier

LoRa

Configuration
Réseau

Ewattch Cloud

Mise à jour

Mise à Jour

Cette page permet de mettre à jour la toolbox

Sélectionner le fichier du firmware à charger:

Choisissez un fichier

Aucun fichier choisi

Charger

Choose a file

Selects the file containing the new firmware to load the ToolBox.

Download

Download new firmware.

Note: the ToolBox will restart.

GPRS

Configuration :



Réseau APN :
Nom d'utilisateur :
Mot de passe :
PIN :

Envoyer



Configuration de l'Ewattch Toolbox

Informations
Boîtier

LoRa

Configuration
Réseau

Ewattch Cloud

Mise à jour

GPRS

GPRS

Cette page permet de visualiser le module GPRS

Etat du service : **Service opérationnel**
Adresse IP : **10.33.240.187**
Signal (RSSI) : ☐
Etat du SIM : **SIM opérationnelle**



APN Network

Allows configuration of the access point name.

Username

GPRS network username.

Password

GPRS network password

PIN

Code SIM card PIN.

TECHNICAL SPECIFICATIONS

POWER SUPPLY

VOLTAGE
5 VDC

WIRED COMMUNICATIONS

ETHERNET
1

RADIO COMMUNICATION

LoRa®

FREQUENCY
865MHz to 868MHz

OUTPUT POWER
25 mW or 7mW (depending on configuration)

COMMUNICATION DISTANCE
from 50m up to 15km in open areas*

AERIAL CONNECTION
SMA female

NUMBER OF CHANNELS
1 short range, 4 long range

GPRS

FREQUENCY
GSM 850, EGSM 900, DCS 1800, PCS 1900

AERIAL CONNECTION
SMA female

ENVIRONMENTAL CONDITIONS

AREA OF USE
Indoors

OPERATING TEMPERATURE
From -5 to 40°C

STORAGE TEMPERATURE
From -20°C to +70°C

OPERATING HUMIDITY
From 10 to 80 %, without condensation

MAXIMUM ALTITUDE
2 000 m

PHYSICAL CHARACTERISTICS

DIMENSIONS (H X L X D)
110 x 150 x 30 mm

HOUSING MATERIAL
ABS

WEIGHT
220 g

PROTECTION RATING
IP30

* Depends on the environment and antenna used

CONTACT



13, Rue Maurice Jeandon
88100 Saint-Dié des Vosges
contact@ewatch.fr
www.ewatch.fr





EWATTCH-SENSORS
WE CREATE USEFUL PRODUCTS

contact@ewatch.fr
www.ewatch.com