

# LEGRAND - BP30076 87045 LIMOGES CEDEX FRANCE

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### Cat. N°: 4 149 49

# **Energy Web Server**



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### 1. DESCRIPTION - UTILISATION

Energy Web server to configure, test, control and display via web browser with secured web pages (https...).

Via web browser on PCs, smartphone, web viewers, tablet computers, it allows remote configuration and management of data collected from: protection devices (DX³ add-on modules with integrated measurement control unit, DPX³ and DMX³), EMDX³ electricity meters and multi-function measuring units, CX³ energy management system and charging stations for electric vehicles.

### 2. PRODUCT RANGE

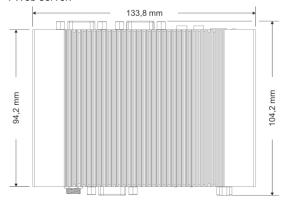
. Cat N° 4 149 49: composed by: 1 web for 255 Modbus addresses, 1 external power supply and fixing brackets

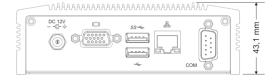
# Auxiliary supply:

. 12 VDC  $\pm$  10%, by external power supply (Power Adapter supplied with the Web Server).

# 3. OVERALL DIMENSIONS

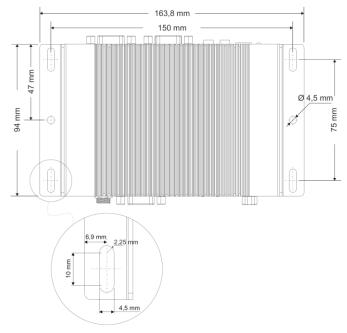
. Web server:





# 3. OVERALL DIMENSIONS (continued)

. Web server with fixing brackets (supplied with the web server): to be used to fix the web server in a rack cabinet or on the bottom of a cabinet or panel board using screws or on a DIN rail using accessories cat. n° 0 379 39 and M4 x 14 mm screws (accessories and screws not supplied):



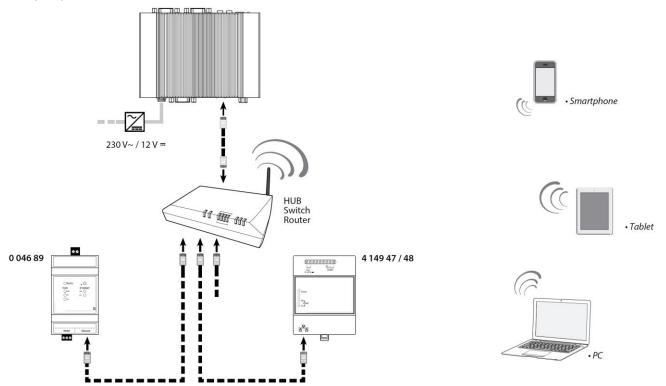
# 4. FIXING - CONNECTION

# Operating position:

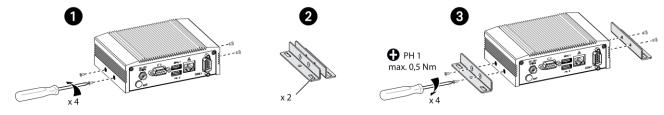
. Vertical, Horizontal, Upside down, On the side

# 4. FIXING – CONNECTION (continued)

# Wiring diagram:



# Installation of the fixing brackets:

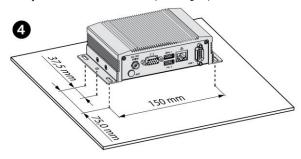


# Fixing the Web Server on a flat surface:

Technical data sheet: F02556EN/01

It is possible to fix the Web Server in a rack cabinet or on the bottom of a cabinet or panel board simply using screws adapted to the surface on which you want to fix the device (see image 4)

Updated: 11/02/2019



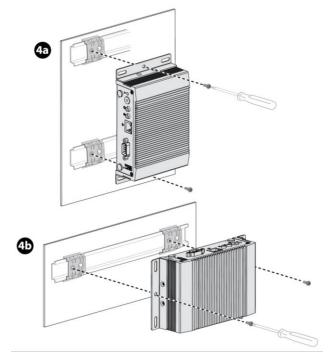
Created: 27/11/2017

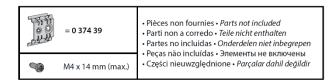


### 4. FIXING - CONNECTION (continued)

# Fixing the Web Server on a DIN rail:

It is always possible to fix the Web Server in a cabinet or panel board directly between DIN rails of two different rows (see picture 4a) or on the rail of a row (see picture 4b) using fixing claws (cat. n° 0 374 39) and M4 screws with a maximum length of 14 mm

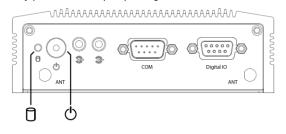




# 5. GENERAL CHARACTERISTICS

# Front face marking:

. By permanent ink pad printing:

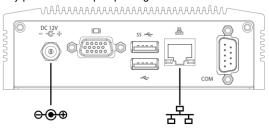


# HDD activity LED Power ON/OFF button with integrated LED

# Rear face marking:

. By permanent ink pad printing:

Technical data sheet: F02556EN/01



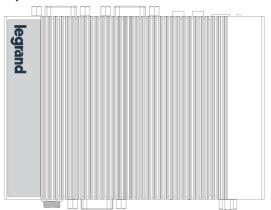
⊖⊕⊕	Power input connector for the external adapter
뭄	RJ45 Ethernet connector with activity LEDs



# 5. GENERAL CHARACTERISTICS (continued)

# Upper face marking:

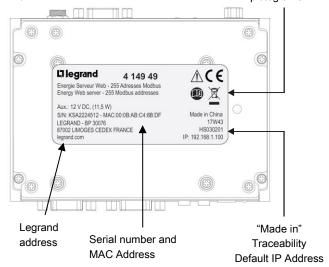
. By adhesive foil:



### Lower part marking:

. By adhesive foil:

Technical pictograms



### Signalling LEDs:

- . Gives information about the operating state of the Web server:
- . LED linked to power On/Off button





. Possible states & colours:

Technical data sheet: F02556EN/01

LED	State	Meaning
Green	Steady on	Device powered on
Orange	Steady on	Device turned off or suspend mode

### 5. GENERAL CHARACTERISTICS (continued)

# Signalling LEDs (continued):

. HDD activity led





### . Possible states & colours:

LED	State	Meaning
Red	Blinking	HDD activity

. RJ45 Ethernet connector with activity LEDs



. Possible states & colours:

LE	D	State	Meaning
"Act/L		Blinking	Device connected to the Ethernet network and activity on Ethernet cable
"Spe	ed"	Steady off Steady Green Steady Yellow	Operating at 10 Mbps Operating at 100 Mbps Operating at 1000 Mbps

Note: all LEDs and ports not described in this document do not have any use in Legrand applications.

### Technical characteristics of communication:

- . Ethernet specification compliance: Compliant with IEEE 802.3, IEEE 802.3u, IEEE 802.3x, IEEE 802.3y, IEEE 802.ab.
- . Interface Ethernet: 1 x 10/100/1000 Mbps Intel 82583V GbE, supports "Wake on LAN" standard

### Default configuration:

. IP Address: 192.168.1.100 . Subnet Mask: 255.255.255.0 . Gateway: 198.168.1.1

# Web pages access:

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Four types of "default" users are configured:

User	PIN	PUK
administrator	99999	00000 9999 00000
greenUp	88888	00000 8888 00000
Installer	55555	00000 5555 00000
user	11111	00000 1111 00000

**Note:** The home page ("home") will be different depending on the type of user that access to the device *(for more details refer to the user manual).* 

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### 5. GENERAL CHARACTERISTICS (continued)

### IT security:

. Server web pages use HTTPS with SSL and 256-bit cryptography (AES-256).

### Operating system:

The operating system is Linux (Ubuntu / Debian) and the embedded application on the Web server is written in Java.

### Historical of consumptions

- . All energy, water and gas values ( $\Delta$  of consumptions and global counters) and statistical values (average values, peak values, etc.), only if available on the device making the measurement, are saved automatically in files ".CSV" compatibles with Excel or "csv" reader.
- . Access to this data is possible in several ways:
- "FTP" protocol
- creation of a network drive
- data download via web pages
- receive automatic reports sent by the web server (for more details refer to the user manual).

### Data storage time:

. Energies (Ea+), Water consumption, Gas Consumption: <u>data</u> storage time is unlimited.

Sampling of data (accuracy per minutes) is over time reduced, thus passing to an accuracy per hour  $\rightarrow$  per day  $\rightarrow$  per month  $\rightarrow$  per year for the oldest stored data.

. For data such as:

THD (if available on the measuring device installed)

Harmonics (if available on the installed measuring device)

Min, max, average values (if available on the measuring device installed)
Status information (if available on the device installed)

### the storage time is limited according to:

total number of registered devices

number of "EQ" devices activated

type of registered devices (e.g. Energy meter, Multifunction devices,  $\ldots)$ 

Sampling of data (accuracy per minutes) is over time reduced, thus passing to an accuracy per hour  $\rightarrow$  per day  $\rightarrow$  per month  $\rightarrow$  per year for the oldest stored data.

### Real Time Clock battery:

. 3 V/210 mAh

### Pollution degree:

. 2

### Ambient operating temperature:

. Min. = 0°C. Max. = +40°C

### Ambient storage temperature:

. Min. = -40°C. Max. = +85°C

# Relative humidity:

. 95% @ 40°C (non-condensing)

Technical data sheet: F02556EN/01

### Case material:

. Aluminium housing

### 5. GENERAL CHARACTERISTICS (continued)

### Protection Index:

. Protection index against direct contacts: IP2X (IEC/EN 60529).

### Vibrations during operation:

. 3G rms, IEC 60068-2-64, random, 5 ~ 500 Hz, 1hr/axis

### Shocks during operation:

. 30G rms, IEC 60068-2-27, half sine, 11ms duration

### Consumption:

- . Typical 6,9 W
- . Max 11,5 W

### Average weight per device:

. 0,8 kg.

### Volume when packed:

. 10,1 dm<sup>3</sup>.

### 6. COMPLIANCE AND APPROVALS

### Compliance to standards:

- . Compliance with Directive on electromagnetic compatibility (EMC)  $n^{\circ}$  2014/30/EU
- . Compliance with low voltage directive n° 2014/35/EU.
- . Electromagnetic Compatibility:

EN 55011: 2016

EN 55022: 2010 + AC: 2011 EN 55024: 2010 + A1: 2015 EN 61000-6-4: 2007 +A1: 2011

FN 61000-3-2: 2014

EN 61000-6-2: 2005 +AC: 2005

EN 61000-3-3: 2013

EN 61000-4-2: 2009 / EN 61000-4-3: 2006 +A1: 2008 +A2: 2010 EN 61000-4-4: 2012 / EN 61000-4-5: 2014 / EN 61000-4-6: 2014

EN 61000-4-8: 2010 / EN 61000-4-11: 2004

# **Environment respect - Compliance with EU directives:**

- . Compliance with Directive 2011/65/EU as amended by Directive 2015/863 (RoHS 2) on the restriction of the use of certain hazardous substances in electrical and electronic equipment.
- . Compliance with REACH regulation (1907/2006): at the date of the publication of this document no element of the SVHC substance list (updated on 27/06/2018) is present in these products.
- . WEEE directive (2012/19/EU): the sale of this product is subject to a contribution to eco-organisations in each country responsible for managing end-of-life products in the field of application of the European Waste Electronic and Electrical Equipment Directive.

### Packaging:

. Design and manufacture of packaging compliant to decree 98-638 of the 20/07/98 and also to directive 94/62/CE.

### Installation software:

. XL PRO<sup>3</sup>.

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