
	Product Data Sheet D-Box V3 family		
Revision: 003	Valid from: 24. April 2023		
Created: Martina Nescakova	Approved: Ziad Jabbour	Date 5. April 2023	Page: 1/11

Revision history table:

Revision	Reason for change	Description of Change	Taking effect on date
001		Initial release	5.4. 2023
002	Product`s weight correction	Corrected weight for LTE variants	20.04.2023
003	Product`s dimension correction	Corrected product dimensions	24.4.2023

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Product Description

The D-Box V3 is a decentralized energy meter and switch to control electrical heaters. The D-Box V3 of type Master LTE (301XXX and 302XXX) is equipped with an LTE-M module (Long-Term Evolution Machine Type Communication) to send data to the cloud in absence of Wi-Fi connection.


Product Picture

A. Front view



B. Back View



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Country of Origin:

Simple variants: Fil Pilote (30300X-1XX) and Relay (30400X-1XX) - **China**

Simple variants: Fil Pilote (30300X-2XX) and Relay (30400X-2XX) and LTE variants: Master LTE File Pilote (30100X-2XX) and Mater LTE Relay (30200X-2XX)- **France**

Compliance


Product D-Box V3 is in compliance to the following EU directives and it wears CE mark.

- 2014/35/EU (LVD)
- 2014/30/EU (EMC)
- 2013/35/EU (EMF)
- 2014/53/EU (RED)
- 2011/65/EU (ROHS II)

Packaging Content











- Main item – D-box V3 – 1 pc
- Wall holder with nano tape – 1 pc
- Safety leaflet – 1 pc


Products of D-box V3 family are produce for **tiko Energy Solutions AG**, Pflanzschulstrasse 7, 8004 Zürich, Switzerland.

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Variants characteristic

1. Master LTE Fil Pilote

Device characteristics	Value
<p>Image of product labels:</p> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <p>tiko Energy Solutions AG 230VAC, 50Hz, 16A Charge: 230VAC 16A 301001 – 201 Conçu en Europe   Fabriqué en France </p> </div> <div style="border: 1px solid black; padding: 5px;"> <p>MAC : ABCD 1234 5678 IMEI: 123456789012345</p> <p>  </p> <p>   </p> </div>	<p>Article Nr. and product name 30100X-XOX - Master LTE Fil Pilote</p>
Input / Output Voltage	230 VAC ± 10%
Input / Output Relay Current	max. 16 A (not fused)
Output Fil Pilote Current	max. 10 mA (fused)
Wire Specification for Load	1.5 mm ²
Wire Specification for Fil Pilote	1.5 mm ²
Frequency	50 Hz
Overvoltage Category	OVC III
Voltage of Breaker before D-Box	max. 240 V
Current of Breaker before D-Box	max. 16 A

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Connectivity	LTE-M cat M1, 2G GSM, WIFI(2.4GHz), Bluetooth 5 (LE)
User Interface	1 button, 1 RGB LED
Dimensions	(L) 176 x (W) 84 x (H) 87 mm
Weight	366 g
Color	White
Installation location	Indoor dry places
Max. Power Consumption	3W

Metrology Characteristic:


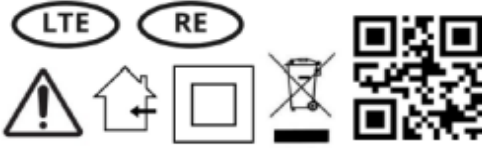
	Value
Power Meter	Active Energy: Class C ($\pm 0.5\%$)
Min. Measurable Current	$\pm 0,3$ A
Temperature sensing	± 0.5 °C


Operating and Storage Condition:

	Operating Conditions	Storage Conditions
Temperature (min.)	+2°C	-20 °C
Temperature (max.)	+55 °C	+70 °C
Relative Humidity	10 % - 85 % No condensation	5 % - 95 % No condensation
Maximum Altitude	4 000 m	-

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2. Master LTE Relay

Device characteristics	Value
<p>Image of product labels:</p> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <p>tiko Energy Solutions AG 230VAC, 50Hz, 16A Charge: 230VAC 16A Conçu en Europe Fabriqué en France</p> <p style="text-align: right;">302001-001</p>  </div> <div style="border: 1px solid black; padding: 5px;"> <p>MAC: 6442 149E FE60 IMEI: 123456789012345</p> <p style="text-align: center;">(LTE) (RE)</p>  </div>	<p>Article Nr. and product name 30200X-X0X - Master LTE Relay</p>
Input / Output Voltage	230 VAC ± 10%
Input / Output Relay Current	max. 16 A (not fused)
Wire Specification for Load	1.5 mm ²
Frequency	50 Hz
Overvoltage Category	OVC III
Voltage of Breaker before D-Box	max. 240 V
Current of Breaker before D-Box	max. 16 A
Connectivity	LTE-M cat M1, 2G GSM, WIFI(2.4GHz), Bluetooth 5 (LE)
User Interface	1 button, 1 RGB LED
Dimensions	(L) 176 x (W) 84 x (H) 87 mm
Weight	389 g

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Color	White
Installation location	Indoor dry places
Max. Power Consumption	3W

Metrology Characteristic:










Metrology Characteristics	Value
Power Meter	Active Energy: Class C ($\pm 0.5\%$)
Min. Measurable Current	0,3 A
Temperature sensing	$\pm 0.5\text{ }^{\circ}\text{C}$


Operating and Storage Condition:

	Operating Conditions	Storage Conditions
Temperature (min.)	+2 °C	-20 °C
Temperature (max.)	+55 °C	+70 °C
Relative Humidity	10 % - 85 % No condensation	5 % - 95 % No condensation
Maximum Altitude	4 000 m	-

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3. Simple Fil Pilot

Device characteristics	Value
<p>Image of product labels:</p> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <p>tiko Energy Solutions AG 230VAC, 50Hz, 16A Charge: 230VAC 16A 303001 – 201 Conçu en Europe    Fabriqué en France</p> </div> <div style="border: 1px solid black; padding: 5px;"> <p>MAC : 1234 5678 ABCD IMEI: 12345678901ABCD</p>       </div>	<p>Article Nr. and product name 30300X-X0X - Simple Fil Pilote</p>
Input / Output Voltage	230 VAC \pm 10%
Input / Output Relay Current	max. 16 A (not fused)
Output Fil Pilote Current	max. 10 mA (fused)
Wire Specification for Load	1.5 mm ²
Wire Specification for Fil Pilote	1.5 mm ²
Frequency	50 Hz
Overvoltage Category	OVC III
Voltage of Breaker before D-Box	max. 240 V
Current of Breaker before D-Box	max. 16 A
Connectivity	WIFI(2.4GHz), Bluetooth 5 (LE)
User Interface	1 button, 1 RGB LED

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Dimensions	(L) 176 x (W) 84 x (H) 87 mm
Weight	380 g
Color	White
Installation location	Indoor dry places
Max. Power Consumption	3W

Metrology Characteristic:









Metrology Characteristics	Value
Power Meter	Active Energy: Class C ($\pm 0.5\%$)
Min. Measurable Current	0,3 A
Temperature sensing	± 0.5 °C


Operating and Storage Condition:

	Operating Conditions	Storage Conditions
Temperature (min.)	+2 °C	-20 °C
Temperature (max.)	+55 °C	+70 °C
Relative Humidity	10 % - 85 % No condensation	5 % - 95 % No condensation
Maximum Altitude	4000 m	-

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4. Simple Relay

Device characteristics	Value
<p>Image of product labels:</p> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <p>tiko Energy Solutions AG 230VAC, 50Hz, 16A Charge: 230VAC 16A 304001 – 201 Conçu en Europe   Fabriqué en France </p> </div> <div style="border: 1px solid black; padding: 5px;"> <p>MAC : ABCD 1234 ABCD IMEI: ABCD12345678901</p>      </div>	<p>Article Nr. and product name 30400X-XOX - Simple Relay</p>
Input / Output Voltage	230 VAC ± 10%
Input / Output Relay Current	max. 16 A (not fused)
Wire Specification for Load	1.5 mm ²
Frequency	50 Hz
Overvoltage Category	OVC III
Voltage of Breaker before D-Box	max. 240 V
Current of Breaker before D-Box	max. 16 A
Connectivity	WIFI(2.4GHz), Bluetooth 5 (LE)
User Interface	1 button, 1 RGB LED
Dimensions	(L) 176 x (W) 84 x (H) 87 mm
Weight	404 g

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Color	White
Installation location	Indoor dry places
Max. Power Consumption	3W

Metrology Characteristics

	Value
Power Meter	Active Energy: Class C ($\pm 0.5\%$)
Min. Measurable Current	$\pm 0,3$ A
Temperature sensing	± 0.5 °C

Operating and Storage Condition:

	Operating Conditions	Storage Conditions
Temperature (min.)	+2 °C	-20 °C
Temperature (max.)	+55 °C	+70 °C
Relative Humidity	10 % - 85 % No condensation	5 % - 95 % No condensation
Maximum Altitude	4000 m	-