

## C-Box

### Communication Interface – Home Control Family

#### Description

Our C-Box is a smart communication interface for appliances that can be controlled through the Modbus protocol or general inputs and outputs (e.g., AC batteries, hybrid batteries, EV charging stations). It is installed in the electrical panel of a household and provides an Ethernet port or an RS485 connector for the Modbus interface and 4 General Purpose Inputs/Outputs (2 of each) for detecting/switching.

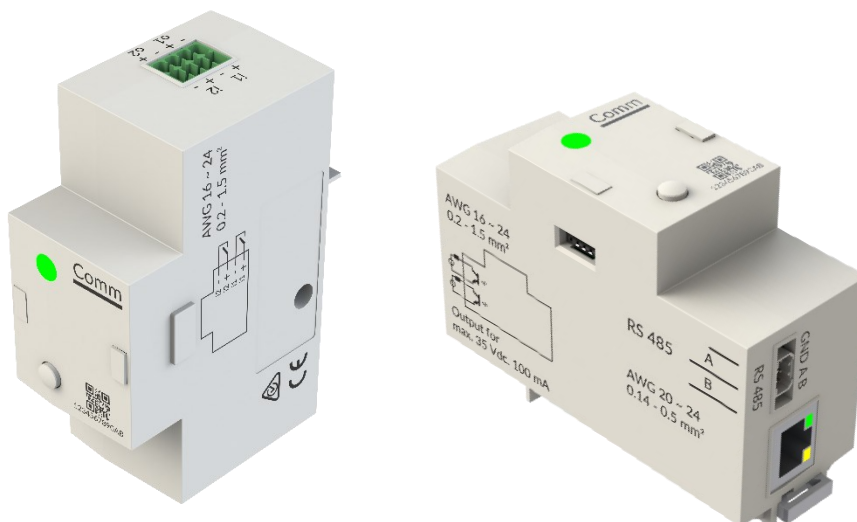
Designed to meet highest security standards, it prevents external devices from accessing the private tiko cloud and vice versa through a discontinuity over the IP layer (“Medienbruch”) for energy services.

It is powered by and communicates through our Bridge Box (REF. CMB-01.1011-01-P1) and cannot be used standalone.

#### Further Information

The user manual and the declaration of conformity can be downloaded from:

<http://um.tiko.energy/1015>



### Data Sheet C-Box – Home Control Family

Device Characteristics	
Product Number (REF)	CMC-01.1015-01-P1
User Interface	1 push button (programmable function) 1 LED (green, yellow, red)
Dimensions	94 x 61 x 36 mm
Weight	93 g

Modbus Characteristics	
Master / Client	yes
Slave / Server	optional
Macros	up to 20
Modbus Interfaces	1x Modbus RTU, 1x Modbus TCP
Serial Port Speed	configurable up to 1 Mbps
RS485 Terminator	Software-controllable
Wire Specification for RS485	0.14 mm <sup>2</sup> - 0.5 mm <sup>2</sup> (AWG 20 ~ 24)
Ethernet Plug	RJ45
Ethernet Speed	10 Mbit/s, 100 Mbit/s, automatic
IP assignment	DHCP client (dynamic) / static

GPIO Characteristics	
Voltage allowed	max. 35 V
Current allowed	max. 100 mA
Wire Specification	0.2 mm <sup>2</sup> - 1.5 mm <sup>2</sup> (AWG 16 ~ 24)
Digital Inputs	2 for potential free
Digital Outputs	2 Opto-Couplers

	Operating Conditions	Storage Conditions
Temperature (min.)	-10 °C	-20 °C
Temperature (max.)	+55 °C	+70 °C
Relative Humidity	10 % - 85 % no condensation	5 % - 95 % no condensation

Product photo may differ from actual product; however, functionalities remain as stated above. Specifications are subject to change without notice.