

### K-Box

### Three-phase meter with switch – Home Control Family

#### Description

Our K-Box is a 3-phase energy meter of metering class B. Together with an integrated 10 Amp relay or an optocoupler the K-Box is able to measure and control appliances such as boilers, heat pumps, air conditionings, inverters or EV charging stations. It communicates to the Gateway (M-Box) over the power lines (Power Line Communication, PLC). The front label can be exchanged to match a corporate branding.

#### Further Information

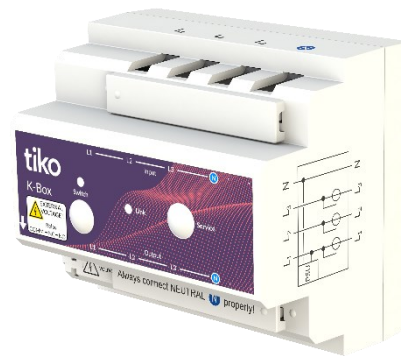
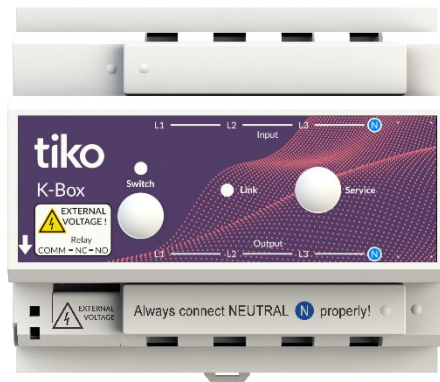
The user manual and the declaration of conformity can be downloaded from:

K-Box A4: <http://um.tiko.energy/9004>

K-Box A5: <http://um.tiko.energy/9005>

K-Box A6: <http://um.tiko.energy/9006>

K-Box A7: <http://um.tiko.energy/9007>



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

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

Device Characteristics	
Product Number (REF)	K-Box A4: 01.9004 K-Box A5: 01.9005, CK-01.9005-P3 K-Box A6: 01.9006, CK-01.9006-P3 K-Box A7: 01.9007
Input / Output Voltage	3 x 230/400 VAC
Input / Output Current	max. 65 A
Input / Output Wire Specification**	2.5 mm <sup>2</sup> - 25 mm <sup>2</sup> (AWG 4 ~ 14)
Frequency	50 Hz
Relay or Optocoupler Wire Specifications	0.14 mm <sup>2</sup> - 1.5 mm <sup>2</sup> (AWG 16 ~ 26)
Relay Switching Voltage (A4, A5, A6 only)	100 V - 240 V
Relay Switching Current (A4, A5, A6 only)	max. 10 A
Optocoupler max. Current (A7 only)	30 mA
Optocoupler max. Voltage (A7 only)	30 V
Voltage of breaker before K-Box	max. 420 V (3 phases)
Current of breaker before K-Box	max. 65 A
Connectivity	PLC HomePlug GreenPHY
User Interface	2 push buttons, 2 LEDs (green)
Dimensions	106 x 92 x 70 mm
Weight	430 g
Max. Power Consumption	less than 1.5 W (relay activated: 2 W*)

\* only applicable to K-Box A4, A5 and A6.

\*\* 1.5 mm<sup>2</sup> / AWG 16 allowed if appropriate bootlace ferrule properly crimped onto wire

Metrology Characteristics	
Min. Measurable Current*	0.1 A
Max. Measurable Current*	65 A
Measurement Tolerance*	±1 % @ 1 A - 65 A

\* for K-Box A6 and A7, this value represents the absolute value, as they can measure both negative and positive values for consuming and producing.

	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