

T10 AUX CONTACT FUNCTION DOCUMENT

Alpha ESS Co., Ltd.

 № +86 513 806 068 91
 ∞ info@alpha-ess.com
 Ø www.alpha-ess.com
 M JiuHua Road 888, Nantong High-Tech Industrial Development Zone, Nantong City, 226300

Alpha ESS Europe GmbH

✿ +49 610 3459 1601
 ➡ europe@alpha-ess.de
 ֎ www.alpha-ess.de
 ▲ Paul-Ehrlich-Straße 1a, 63225 Langen, Hessen

Alpha ESS Australia Pty. Ltd.

is +61 402 500 520 (Sales)
 +61 1300 968 933 (Technical Support)
 is australia@alpha-ess.com
 www.alpha-ess.com.au
 Suite 1, Level 1, 530 Botany Road, Alexandria, NSW, 2015

Alpha ESS UK Co., Ltd

☎ uk@alpha-ess.com▲ Drake House, Long Street, Dursley, gl11 4hh

Alpha ESS Suzhou Co., Ltd.

- +86 512 6828 7609
- 🔀 info@alpha-ess.com
- e www.alpha-ess.com
- Level 15,SIPC 158 Wangdun Road SIP Suzhou, 215028

Alpha ESS Italy S.r.l.

☎ +39 599 239 50
 ∞ info@alpha-ess.it
 ∅ www.alpha-ess.it
 M Via Loda,17-41013 Castelfranco Emilia(MO)

Alpha ESS Korea Co., Ltd

 ☞ +82 64 721 2004
 ☞ korea@alpha-ess.com
 @ 2F, 19-4, Nohyeong 11-gil, Jeju-si, Jeju-do, Republic of Korea



File version information

File version	Date	Content	Author
First edition	2019/09/07	T10 Aux contact function description	Stephen
Second edition	2020/07/17	Silk Screen image modification	Xiaohu

CONTENTS

01	FUNCTION OVERVIEW	01
02	WIRING INSTRUCTIONS	01
2.1 Phys	sical map ·····	01
2.2 Sche	ematic ·····	01
2.3 Wirii	ng instructions	01
03	SERVER CONFIGURATION	02
3.1 On r	node·····	02
3.2 Off r	mode·····	03
3.3 Auto	o mode ·····	03

01 FUNCTION OVERVIEW

Kontakty AUX jsou pasivní spínač se dvěma stavovými, sepnutými a rozepnutými. Mezi kontakty není polarita. Tato funkce je určena k ovládání sepnutí nebo rozepnutí kontaktů mezi nastavenými podmínkami k dosažení účinku zapnutí nebo vypnutí zátěže.

02 WIRING INSTRUCTIONS

2.1 Physical map



2.2 Schéma



2.3 Wiring instructions

There are two Aux contact controls, 1, 2, and 3 are one route, and 4, 5, and 6 are the other route. Among them, "2, 3" and "5, 6" are nomally closed points and "1, 2" and "4, 5" are normally open points. That is to say, the function of this is to control the normally closed point to open/close (normally open point to close/open) under the set conditions, so that the residential appliance can be turned on/off under specified conditions. (Cannot support power generation equipment.)



The "NO" and "NC" marked on the top of the Aux contact originally means normally open and normally closed, but the current version of the high voltage box is REVERSED here.

3 SERVER CONFIGURATION

The following figure shows the Aux contact configuration interface on the server, two-route control and three modes. Among them, the On mode and the Off mode control the Aux contact to open and close according to the time period, and the Auto mode is to open and close the Aux contact according to the power of the feed network and the delay. Channel1 corresponds to "4 5 6" and Channel2 corresponds to " 1 2 3".

AUX Contact Settings					~
AUX Contact		ON/OFF			
channel1		Select ~			
Control Mode	Start Time0		End time 0		
Select ~	③ Start Time		③ End Time		
	Start Time1		End time 1		
	③ Start Time		© End Time		
Date Selection					
Monday Tuesday Wednesday Thursday	Friday Saturday Sunday	(
UPS Mode Select V SOC Setting					
0 V Please enter					%
Switch ON Feed in : > 0 👘 W		Switch OFF Feed in : < 0 🔗 W			
Note: The feed-in power of switch-on should be more than that of switch-off.					
Delay	Duration		Pause		
0 Minutes	0 Minutes		0 Minutes		
Minutes to wait before switching on/off	After switching on, do not switch off in t	he given time.	After switching off, do not switch on in	the given time.	

3.1 On mode

In On mode, you can set the hour period and the day of the week. When enabled in Channel1, "45" will be turned on during the time period, and will be disconnected out of the time period. When enabled in Channel2, "12" will be enabled in the time period. "It will be switched on and will be disconnected out of the time period.

AUX Contact Settings				~
AUX Contact		ON/OFF		
channel1 ~		Select ~		
Control Mode	Start Time0		End time 0	
ON ~	③ 08:00		© 11:00	
	Start Time1		End time 1	
	③ 14:00		© 17:00	
Monday Tuesday Wednesday Thursday Tuesday Ves Mode Select	Friday 🗌 Saturday 📄 Sunday	,		
SOC Setting				07
U * Please enter				70
Switch ON		Switch OFF		
Feed in : > 0 💮 W		Feed in : < 0 W		
Note: The feed-in power of switch-on should be more than that of switch-off.				
Delay	Duration		Pause	
0 Minutes	0 Minutes		0 Minutes	
Minutes to wait before switching on/off	After switching on, do not switch off in t	he given time.	After switching off, do not switch on in the given time.	

3.2 Off mode

In Off mode, you can set the hour and day of the week. When enabled in Channel1, "45" will be disconnected during the time period and will be turned on out of the time period. When enabled in Channel2, "12" will be enabled in the time period. "It will be disconnected and will be connected out of the time period.

AUX Contact Settings				\sim
AUX Contact	ON/C	OFF		
channel1 🗸	Se	elect ~		
Control Mode	Start Time0		End time 0	
OFF ~	© 08:00		© 11:00	
	Start Time1		End time 1	
	③ 14:00		© 17:00	
Date Selection				
Monday 🖸 Tuesday 💌 Wednesday 💌 Thursday 💌	Friday 🗌 Saturday 📄 Sunday			
100 Mede				
UPS Mode				
UPS Mode Select ~				
UPS Mode Select V SOC Setting				
UPS Mode Select V SOC Setting 0 V Please enter				 %
UPS Mode Select V SOC Setting 0 V Please enter Switch ON	Swith	Ich OFF		%
UPS Mode Select SoC Setting 0 Please enter Switch ON Feed in : > 0 W	Swith Feed	tch OFF din∶< 0 ∽ W		%
UPS Mode Select Select Solution Of Please enter Solution Of Select Select Solution Of Sel	Swith Food	leh OFF din∶< 0 ⊽ W		X
UPS Mode Select SOC Setting 0 Please enter Switch ON Fred In : > 0 W Note: The loss in power of switch on should be more than that of switch off. Datay	Switt Food	leh OFF dn∶< 0 ₩	Pause	%
UPS Mode Select Sol Setting V Flease enter Switch ON Fred In : > 0 V Net: The loss in power of switch on should be more than that of switch off. Delay Output	Swith Food	lehOFF dn: < 0 → W	Pause	%

3.3 Auto mode

In Auto mode, the position of the Aux contact of the load is different according to the setting of SOC mode.

When the SOC is set to "at least" mode, the Aux contact of the load needs to be connected to the normally open point. At this time, when the battery SOC satisfies the actual setting condition, (regardless of the set delay), when the feed network power is greater than the set "Switch on" power, the normally open point is closed (load open), when the feed network power is less than the set "Switch off" power or when the power is being bought, the normally open point is disconnected (load off). When the power of the feed network is between the two, no operation is performed.

When the SOC is set to "at most" mode, the Aux contact of the load needs to be connected to the normally closed point. At this time, when the battery SOC satisfies the actual setting condition, (regardless of the set delay), when the feed network power is greater than the set "Switch on" power, the normally closed point is closed (load on), when the feed network power is less than the set "Switch off" power or when the power is being bought, the normally closed point is disconnected (load off). When the power of the feed network is between the two, no operation is performed.

There are also three delay time settings. The "Delay time" refers to the opening/closing action after the set Delay time period. The "Duration time" refers to the prohibition of the disconnection action within the set Duration time period after the Aux contact is closed. The "Pause time" refers to the prohibition of the closing action within the set Pause time period after the Aux contact is disconnected.

Note:

04

When the feed network power is 0 to 100W, no judgment is made and no operation is performed. In addition, the "Switch on" power must be greater than the "Switch off" power.

AUX Contact Settings				~
AUX Contact		ON/OFF		
channel1 ~		Select ~		
Control Mode	Start Time0		End time 0	
AUTO \checkmark	© 08:00		③ 11:00	
	Start Time1		End time 1	
	© 14:00		© 17:00	
© Mondey © Tuesday © Wednesday © Thursday © F UPS Mode Select	nday 📄 Saturday 📄 Sunday			
>= ~ 30				%
Switch ON Freed in : > 0		Switch OFF Feed in : < 0 > W		
Delay	Duration		Pause	
1 Alinutes	5 Alinutes		10 Âlinutes	
Minutes to wait before switching on/off	After switching on, do not switch off in th	ne given time.	After switching off, do not switch on in	he given time.