

VoltageAlert



■■	1.0
■■■	2026■ 2■
■■ ■■	Android 8.0 ■■
■■ ■■	ST9401-UP (ESSYSTEM)





1.	■■	3
2.	■■■ ■■■■	3
3.	■■ ■■	4
4.	■■ ■■	5
5.	■■ ■■■	6
6.	■■ ■■	7
7.	■■ ■■	8
8.	■■ ■■	9

1. ■■



2. [REDACTED]

[REDACTED]	[REDACTED]
[REDACTED]	Android 8.0 (API 26) [REDACTED]
[REDACTED]	Bluetooth Low Energy (BLE) [REDACTED]
[REDACTED]	ST9401-UP (ESSYSTEM)
[REDACTED]	Bluetooth, [REDACTED], [REDACTED]
[REDACTED]	■ 7MB

3. [REDACTED]

[REDACTED] 1: [REDACTED] [REDACTED] ([REDACTED] [REDACTED] [REDACTED])

1. APK [REDACTED]: app-release.apk [REDACTED] Android [REDACTED] [REDACTED]
2. [REDACTED]: [REDACTED] APK [REDACTED] [REDACTED]
3. [REDACTED]: " [REDACTED] [REDACTED] " [REDACTED] ([REDACTED])
4. [REDACTED]: " [REDACTED] " [REDACTED] [REDACTED]
5. [REDACTED]: [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED]

[REDACTED] 2: ADB [REDACTED] ([REDACTED] [REDACTED])

1. USB [REDACTED] [REDACTED]
2. [REDACTED] [REDACTED] [REDACTED] [REDACTED]
3. [REDACTED] [REDACTED] [REDACTED]:

```
adb install app-release.apk
```

[REDACTED] [REDACTED] [REDACTED] [REDACTED]:

```
adb install -r app-release.apk
```

✓ [REDACTED] [REDACTED]!

[REDACTED] [REDACTED] [REDACTED]-[REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED].

4. [blue square icon]

[blue square icon]	[blue square icon]	[blue square icon]
1	[black square icon]	[black square icon]
2	[black square icon]	VoltageAlert [black square icon] [black square icon]
3	Bluetooth [black square icon]	"[black square icon]" [black square icon] ([black square icon] [black square icon] [black square icon])
4	[black square icon]	"[black square icon]" [black square icon] ([black square icon] [black square icon] [black square icon])
5	[black square icon] [black square icon]	[black square icon] ESSYSTEM [black square icon] [black square icon]
6	[black square icon] [black square icon]!	[black square icon] [black square icon] [black square icon]

[blue square icon]: [blue square icon] ESSYSTEM [blue square icon] 5-8 [blue square icon] [blue square icon] [blue square icon].

5.

1   	 	    
2  	  	ST9401-UP      
3  	 (5-8 	      
4  	  	    
5  	 	     
6  	 	"  "    

 	 	 	 
220V	 		 -   
380V	 		 -   
154KV	 		 - 
229KV	 		 - 
345KV	 		 - 
500KV	 		 -   
765KV	 		 -   

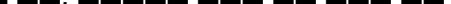
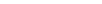
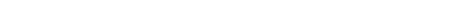
6. 



(220V/380V)	-
(154KV)	!
"	(LCD)
"..."	ESSYSTEM
"	



██████████(154KV █████)██████████:

-  :
 -  : 2  (1200Hz/800Hz) 
 -  :
 -  :

[REDACTED] [REDACTED]; [REDACTED] " [REDACTED]" [REDACTED] [REDACTED].



7.

	 
	ST9401-UP  (LCD  , LED 
	
	
	
	
	Bluetooth 

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8. 

Bluetooth

■■	■
■■■■■	ESSYSTEM
MAC ■■■	30:ED:A0:D4:8D:92
■■■■■	Bluetooth Low Energy (BLE)
Service UUID	0000ffff-0000-1000-8000-00805f9b34fb
Characteristic UUID	0000ffff-0000-1000-8000-00805f9b34fb
■■■■■■	ASCII ■■■■ (■: "220V WARNING")
■■■■■■	5■
■■■■■■	3■
■■■■	■■■ (8■■■)



■■	■
■■	1.0
■■ Android	8.0 (API 26)
■■ Android	14 (API 34)
■■ ■■	Kotlin 1.9.22
■■ ■■■	Gradle 8.13
■■■■■■	Room 2.6.1
BLE ■■■■■	Nordic Semiconductor BLE 2.7.1
APK ■■	■ 6.5MB (debug), 2.4MB (release)



VoltageAlert (■■ ■■ ■■■)



GitHub: <https://github.com/mskim/VoltageAlert>

■■: 2026 ■ 2 ■