

## **Table Modbus Register - Heidelberg Wallbox Energy Control**

Status 22 February 2021

Bus-Adr.	R/W	ModBus-Function	Туре	Description	Range	Values / examples	Default Value	Available at
4	R	04 - readInputRegister	uint16	Modbus Register-Layouts Version	065536	0x100 -> V1.0.0	-	V 1.0.0
5	R	04 - readInputRegister	uint16	Charging State *	111	2=A1, 3=A2, 4=B1, 5=B2, 6=C1, 7=C2, 8=derating, 9=E, 10=F, 11=ERR	-	V 1.0.0
6	R	04 - readInputRegister	uint16	L1 - Current RMS **	0350	1 = 0.1 Arms	-	V 1.0.0
7	R	04 - readInputRegister	uint16	L2 - Current RMS **	0350	1 = 0.1 Arms	-	V 1.0.0
8	R	04 - readInputRegister	uint16	L3 - Current RMS **	0350	1 = 0.1 Arms	-	V 1.0.0
9	R	04 - readInputRegister	int16	PCB-Temperatur in 0.1 °C	-200°C/200°C	325 = +32.5 °C / -145 = -14.5 °C	-	V 1.0.0
10	R	04 - readInputRegister	uint16	Voltage L1 - N rms in Volt **	065536	238 = 238 Vrms	-	V 1.0.0
11	R	04 - readInputRegister	uint16	Voltage L2 - N rms in Volt **	065536	8 = 8 Vrms	-	V 1.0.0
12	R	04 - readInputRegister	uint16	Voltage L3 - N rms in Volt **	065536	258 = 258 Vrms	-	V 1.0.0
13	R	04 - readInputRegister	uint16	extern lock state	0/1	0 = locked / 1 = unlocked	-	V 1.0.0
14	R	04 - readInputRegister	uint16	Power (L1+L2+L3) in VA **	065536	1000> 1kVA	-	V1.0.4
15	R	04 - readInputRegister	uint16	Energy since PowerOn [High byte] **	065536	1> 2 <sup>16</sup> VAh	-	V1.0.4
16	R	04 - readInputRegister	uint16	Energy since PowerOn [Low byte] **	065536	1000> 1000VAh	-	V1.0.4
17	R	04 - readInputRegister	uint16	Energy since Installation [High byte] **	065536	1> 2 <sup>16</sup> VAh	-	V1.0.7
18	R	04 - readInputRegister	uint16	Energy since Installation [Low byte] **	065536	1000> 1000VAh	-	V1.0.7
100	R	04 - readInputRegister	uint16	Hardware configuration maximal current	016	10 = 10A	-	V 1.0.0
101	R	04 - readInputRegister	uint16	Hardware configuration minimal current	016	7 = 7A	-	V 1.0.0
102	R	04 - readInputRegister	char[2]	Logistic - String [0,1]	ASCCI		-	V1.0.4
	R	04 - readInputRegister	char[2]	Logistic - String [,]	ASCCI	reserved manufacturer	-	V1.0.4
133	R	04 - readInputRegister	char[2]	Logistic - String [62,63]	ASCCI		-	V1.0.4
200	R	04 - readInputRegister	uint16	Hardware-Variant		reserved manufacturer	-	V1.0.3
203	R	04 - readInputRegister	uint16	Application Software svn-revNo		reserveu manuracturei	-	V1.0.5
300	R	04 - readInputRegister	uint16				-	V 1.0.4
	R	04 - readInputRegister	uint16	Support Diagnostic Data		reserved manufacturer	-	V 1.0.4
318	R	04 - readInputRegister	uint16				-	V 1.0.4
500	R	04 - readInputRegister	int16				-	V 1.0.4
•••				640 Bytes Error Memory		reserved manufacturer		V 1.0.4
819	R	04 - readInputRegister	int16				-	V 1.0.4
257	R/W	03 - readHoldingRegister *** 06 - writeHoldingRegister ***	uint16	ModBus-Master WatchDog Timeout in ms	065536	10000 = 10 sec.   0 = Off	15000	V 1.0.1
258	W	06 - writeHoldingRegister ***	uint16	Standby Function Control	065536	0-> enable StandBy Funktion 4-> disable StandBy Funktion	0 = enable	V1.0.4 - V1.0.7
230	R/W	03 - readHoldingRegister *** 06 - writeHoldingRegister ***	dilitio	(Power Saving if no car plugged)	003330	x -> reserved development	0 - chable	≥V1.0.8
259	R/W	06 - writeHoldingRegister	uint16	Remote lock (only if extern lock unlocked)	01	0 = locked / 1= unlocked	1 = unlocked	V1.0.4
261	R/W	03 - readHoldingRegister *** 06 - writeHoldingRegister ***	uint16	Maximal current command	[0; 60 to 160]	100 = 10A	0	V 1.0.7
262	R/W	03 - readHoldingRegister *** 06 - writeHoldingRegister ***	uint16	FailSafe Current configuration (in case loss of Modbus communication)	[0; 60 to 160]	0 = error state 60 = 6 A	0	V1.0.7

* Notice Charg	ing States		
	Car	Wallbox	
State A1	No vehicle plugged	Wallbox doesn't allow charging	
State A2	No venicie praggea	Wallbox allows charging	
State B1	Vehicle plugged without charging request	Wallbox doesn't allow charging	
State B2	vernicle plugged without charging request	Wallbox allows charging	
State C1	Vahiala aluenad with abouting an accet	Wallbox doesn't allow charging	
State C2	Vehicle plugged with charging request	Wallbox allows charging	

## \*\* Notice Internal Values

These values are for internal purposes and should not be used for accurate billing.

## \*\*\* Notice Holding Register

Up to and including version 1.0.7 after Power On or Standby default values are valid.

From version 1.0.8 in Register 257, 258, 259, 262 the stored values are retained and only in Register 261 default values are valid after Power On or Standby.

Please check Modbus register layout version by Register 4.