

### List Modbus Register - Heidelberg Wallbox Energy Control

Bus-Adr.	R/W	ModBus-Function	Type	Description	Range	Values / examples	Default Value	Available at
4	R	04 - readInputRegister	uint16	Modbus Register-Layouts Version	0..65536	0x100 -> V1.0.0	-	V 1.0.0
5	R	04 - readInputRegister	uint16	charging state*	1...11	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	0...350	1 = 0.1 Arms	-	V 1.0.0
7	R	04 - readInputRegister	uint16	L2 - Current RMS	0...350	1 = 0.1 Arms	-	V 1.0.0
8	R	04 - readInputRegister	uint16	L3 - Current RMS	0...350	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	0...65536	238 = 238 Vrms	-	V 1.0.0
11	R	04 - readInputRegister	uint16	Voltage L2 - N rms in Volt	0...65536	8 = 8 Vrms	-	V 1.0.0
12	R	04 - readInputRegister	uint16	Voltage L3 - N rms in Volt	0...65536	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	0..65536	1000 -> 1kVA	-	V1.0.4
15	R	04 - readInputRegister	uint16	Energy since PowerOn [High byte]	0..65536	1 -> 2 <sup>16</sup> VAh	-	V1.0.4
16	R	04 - readInputRegister	uint16	Energy since PowerOn [Low byte]	0..65536	1000 -> 1000VAh	-	V1.0.4
17	R	04 - readInputRegister	uint16	Energy since Installation [High byte]	0..65536	1 -> 2 <sup>16</sup> VAh	-	V1.0.7
18	R	04 - readInputRegister	uint16	Energy since Installation [Low byte]	0..65536	1000 -> 1000VAh	-	V1.0.7
100	R	04 - readInputRegister	uint16	Hardware configuration maximal current	0...16	10 = 10A	-	V 1.0.0
101	R	04 - readInputRegister	uint16	Hardware configuration minimal current	0...16	7 = 7A	-	V 1.0.0
102	R	04 - readInputRegister	char[2]	Logistic - String [0,1]	ASCCI	reserved manufacturer	-	V1.0.4
...	R	04 - readInputRegister	char[2]	Logistic - String [.....]	ASCCI		-	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			-	V1.0.5
300	R	04 - readInputRegister	uint16	Support Diagnostic Data		reserved manufacturer	-	V 1.0.4
...	R	04 - readInputRegister	uint16		-		V 1.0.4	
318	R	04 - readInputRegister	uint16		-		V 1.0.4	
500	R	04 - readInputRegister	int16	640 Bytes Error Memory	..	reserved manufacturer	-	V 1.0.4
...	..	..	..				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	0...65536	10000 = 10 sec.   0 = Off	15000	V 1.0.1
258	W	06 - writeHoldingRegister	uint16	Standby Function Control (Power Saving if no car plugged)	0...65536	0-> enable StandBy Funktion 4-> disable StandBy Funktion x -> reserved development	0 = enable	V1.0.4
259	R / W	06 - writeHoldingRegister	uint16	Remote lock (only if extern lock unlocked)	0..1	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	Hardware config.	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 WriteRegister: After Power On or Standby default value are valid

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*Charging States	State A	No vehicle plugged
	State B	Vehicle plugged without charging request
	State C	Vehicle plugged with charging request
	State x1	Wallbox doesn't allow charging
	State x2	Wallbox allows charging