

# Dokumentation

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## Modbus TCP Slave Protokollregister

Alle Daten werden in Netzwerk byte order/big endian übertragen.

Protokoll:

Reg. Typ	Adresse	Name	R/W	Nr. Regs.	Beschreibung
Holding	100	Firmware-Version	R	2	Returns the Ebee Application version number (see Spec. sheet) = {0x30, 0x2E, 0x39, 0x31} 4.40 = {0x34, 0x30, 0x39, 0x31}
Holding	104	OCPP CP Status	R	1	Charge Point status according to the OCPP 1.6 Spec. sheet
Holding	105	Error Codes 1	R	2	Aggregated error states (see Spec. sheet)
Holding	107	Error Codes 2	R	2	Aggregated error states (see Spec. sheet)
Holding	109	Error Codes 3	R	2	Aggregated error states (see Spec. sheet)
Holding	111	Error Codes 4	R	2	Aggregated error states (see Spec. sheet)
Holding	120	Protocol Version	R	2	Ebee Modbus TCP Server Protocol Version (see Spec. sheet) = {0x30, 0x2E, 0x36}
Holding	122	Vehicle (Control Pilot) state	R	1	A=1, B=2, C=3, D=4, E=5
Holding	123	Vehicle (Control Pilot) state in Hex. format	R	1	A = 0x0A, B = 0x0B, etc.
Holding	124	Charge Point availability	R/W	1	Get/Set available/unavailable
Holding	131	Safe Current (Amps.)	R/W	1	Max. charge current under communication
Holding	132	Comm. Timeout (seconds)	R/W	1	Communication timeout
Holding	133	Hardware current limit	R	1	
Holding	134	Operator current limit	R	1	
Holding	135	RCMB Mode	R	1	
Holding	136	RCMB Last RMS value (integral part)	R	1	
Holding	137	RCMB Last RMS value (fractional part)	R	1	
Holding	138	RCMB Last DC value (integral part)	R	1	
Holding	139	RCMB Last DC value (fractional part)	R	1	
Holding	140	Relays State	R	1	
Holding	141	Device ID	R	1	This register is a device identifier and should be set to 0xEBEE (decimal 60398)
Holding	142	Modell der Ladestation	R	2	ChargePoint Model. Bytes 0 to 3.
Holding	144	Modell der Ladestation	R	2	ChargePoint Model. Bytes 4 to 7.
Holding	146	Modell der Ladestation	R	2	ChargePoint Model. Bytes 8 to 11.
Holding	148	Modell der Ladestation	R	2	ChargePoint Model. Bytes 12 to 15.
Holding	150	Modell der Ladestation	R	2	ChargePoint Model. Bytes 16 to 19.
Holding	152	Plug lock detect	R	1	Status of plug lock detection
Holding	153	Firmware-Version	R	1	Returns the Ebee Application major version

Reg. Typ	Adresse	Name	R/W	Nr. Regs.	Beschreibung
Holding	154	Firmware-Version	R	1	Returns the Ebee Application minor vers
Holding	155	Firmware-Version	R	1	Returns the Ebee Application patch vers
Holding	156	Build Number	R	2	Returns the Ebee Application build numl
Holding	158	Error Events 1	R	2	Aggregated error events (see Spec. she
Holding	160	Error Events 2	R	2	Aggregated error events (see Spec. she
Holding	162	Error Events 3	R	2	Aggregated error events (see Spec. she
Holding	164	Error Events 4	R	2	Aggregated error events (see Spec. she no error code --- 0x1 --- System rebootir no error code --- 0x2 --- Authorization fa no error code --- 0x4 --- Authorization fa no error code --- 0x8 --- Firmware updat no error code --- 0x10 --- FW update pa 01-02-017 --- 0x20 --- Unintended Rese 01-02-018 --- 0x40 --- Terminated transa no error code --- 0x80 --- Slave disconn 01-03-005 --- 0x100 --- Diagnostics fail 01-04-001 --- 0x200 --- 15118 communic 01-04-010 --- 0x400 --- 15118 communic 01-04-009 --- 0x800 --- 15118 communic 01-04-006 --- 0x1000 --- 15118 commun id) 01-04-008 --- 0x2000 --- 15118 commun 01-04-011 --- 0x4000 --- 15118 authoriza 01-04-012 --- 0x8000 --- 15118 authent 01-04-013 --- 0x10000 --- 15118 certifica 01-04-002 --- 0x20000 --- 15118 V2G Se 01-04-003 --- 0x40000 --- 15118 V2G Se 01-06-002 --- 0x80000 --- Unexpected C 01-03-007 --- 0x100000 --- System not y
Holding	166	Kostenloses Laden	R/W	1	0 = Free charging disabled, 1 = Free cha
Holding	167	Modus 'Kostenloses Laden'	R/W	1	Modes 0 to 5 (see Spec. sheet for detail
Holding	168	Hersteller-Seriennummer	R	2	Manufacturer serial number. Bytes 0 to 1
Holding	170	Hersteller-Seriennummer	R	2	Manufacturer serial number. Bytes 4 to 5
Holding	172	Hersteller-Seriennummer	R	2	Manufacturer serial number. Bytes 8 to 9
Holding	174	Hersteller-Seriennummer	R	2	Manufacturer serial number. Bytes 12 to 13
Holding	176	Hersteller-Seriennummer	R	2	Manufacturer serial number. Bytes 16 to 17
Holding	178	Hersteller-Seriennummer	R	2	Manufacturer serial number. Bytes 20 to 21
Holding	180	Hersteller-Seriennummer	R	1	Manufacturer serial number. Byte 24 and
Holding	182	Phytec-Board temperature	R/W	2	Phytec-Board temperature from comtra
Holding	184	Reservation expiry time (UTC)	R	2	Reservation expiry time (UTC)
Holding	186	GMT offset	R	1	GMT offset in minutes
Holding	200	Energy L1	R	2	Energy in Wh. (phase 1) from primary m
Holding	202	Energy L2	R	2	Energy in Wh. (phase 2) from primary m
Holding	204	Energy L3	R	2	Energy in Wh. (phase 3) from primary m
Holding	206	Power L1	R	2	Power in W (phase 1) from primary met
Holding	208	Power L2	R	2	Power in W (phase 2) from primary met
Holding	210	Power L3	R	2	Power in W (phase 3) from primary met
Holding	212	Current L1	R	2	Current in mA (phase 1) from primary m

Reg. Typ	Adresse	Name	R/W	Nr. Regs.	Beschreibung
Holding	214	Current L2	R	2	Current in mA (phase 2) from primary m
Holding	216	Current L3	R	2	Current in mA (phase 3) from primary m
Holding	218	Total Energy	R	2	Total Energy in Wh. from primary meter
Holding	220	Total Power	R	2	Total Power in Wh. from primary meter
Holding	222	Voltage L1	R	2	Returns the voltage of phase 1 of the oc
Holding	224	Voltage L2	R	2	Returns the voltage of phase 2 of the oc
Holding	226	Voltage L3	R	2	Returns the voltage of phase 3 of the oc
Holding	500	(Reserved)	R	1	
Holding	501	(Reserved)	R	1	
Holding	502	(Reserved)	R	1	
Holding	503	(Reserved)	R	1	
Holding	504	(Reserved)	R	1	
Holding	505	(Reserved)	R	1	
Holding	506	(Reserved)	R	1	
Holding	507	(Reserved)	R	1	
Holding	508	(Reserved)	R	1	
Holding	509	(Reserved)	R	1	
Holding	510	(Reserved)	R	1	
Holding	511	(Reserved)	R	1	
Holding	512	(Reserved)	R	1	
Holding	600	DLM Mode	R	1	Indicates the DLM mode configured for t
Holding	610	DLM EVSE Sub-distribution Limit L1	R	1	Overall current limit for DLM available fo
Holding	611	DLM EVSE Sub-distribution Limit L2	R	1	Overall current limit for DLM available fo
Holding	612	DLM EVSE Sub-distribution Limit L3	R	1	Overall current limit for DLM available fo
Holding	613	DLM Operator EVSE Sub-distribution Limit L1	R/W	1	Operator current limit for DLM available
Holding	614	DLM Operator EVSE Sub-distribution Limit L2	R/W	1	Operator current limit for DLM available
Holding	615	DLM Operator EVSE Sub-distribution Limit L3	R/W	1	Operator current limit for DLM available
Holding	620	DLM External Meter support	R	1	Value of this register is 1 when External disabled
Holding	621	DLM Number of Slaves connected	R	1	The number of DLM Slaves connected t
Holding	630	DLM Overall Current applied L1	R	1	Overall Current (A) the DLM Master is c current distributed among the slaves)
Holding	631	DLM Overall Current applied L2	R	1	Overall Current (A) the DLM Master is c current distributed among the slaves)
Holding	632	DLM Overall Current applied L3	R	1	Overall Current (A) the DLM Master is c current distributed among the slaves)
Holding	633	DLM Overall Current available L1	R	1	Overall Current (A) the DLM Master has among the slaves
Holding	634	DLM Overall Current available L2	R	1	Overall Current (A) the DLM Master has among the slaves
Holding	635	DLM Overall Current available L3	R	1	Overall Current (A) the DLM Master has among the slaves
Holding	701	Scheduled Time (hhmmss)	R	2	Scheduled departure time (format is `hh packed BCD with left zero padding) – 15
Holding	703	Scheduled Date (yymmdd)	R	2	Scheduled departure time (format is `dd packed BCD with left zero padding) – 15

Reg. Typ	Adresse	Name	R/W	Nr. Regs.	Beschreibung
Holding	705	(deprecated) Charged Energy	R	1	Sum of charged energy for the current s
Holding	706	Angebotener Strom	R	1	The maximum current that's being signa
Holding	707	Start Time (hhmmss)	R	2	Start time of charging process
Holding	709	(deprecated) Charging Duration (seconds)	R	1	Duration since beginning of charge
Holding	710	End Time (hhmmss)	R	2	End time of charging process
Holding	712	Minimum current limit	R	1	Minimum current limit for charging
Holding	713	EV Required Energy (Wh)	R	2	Returns the amount of energy in Wh rec
Holding	715	Max. Current EV	R	1	This is the maximum current with which
Holding	716	Charged Energy	R	2	Sum of charged energy for the current s
Holding	718	Charging Duration (seconds)	R	2	Duration since beginning of charge
Holding	720	User ID	R	2	User ID (OCPP IdTag) from the current s
Holding	722	User ID	R	2	User ID (OCPP IdTag) from the current s
Holding	724	User ID	R	2	User ID (OCPP IdTag) from the current s
Holding	726	User ID	R	2	User ID (OCPP IdTag) from the current s
Holding	728	User ID	R	2	User ID (OCPP IdTag) from the current s
Holding	730	EV Battery State (% 0-100)	R	1	Returns an estimate of the SoC
Holding	740	15118 Smart vehicle detected	R	1	Returns 1 if an EV currently connected i EV connected or it is not a smart vehicle
Holding	741	EVCCID - 15118 only	R	2	ASCII representation of the Hex. Values EVCCID. Bytes 0 to 3.
Holding	743	EVCCID - 15118 only	R	2	ASCII representation of the Hex. Values EVCCID. Bytes 4 to 7.
Holding	745	EVCCID - 15118 only	R	2	ASCII representation of the Hex. Values EVCCID. Bytes 8 to 11.
Holding	747	Remaining time to full SoC - 15118 only	R	2	Returns the remaining time in seconds t
Holding	749	Is in charging loop - 15118 only	R	1	Returns 1 if the EV/EVSE are on a charg
Holding	752	Auth. source	R	1	Source of authorization (RFID, Input, Re Power Loss... )
Holding	1000	Hems Current Limit (A)	R/W	1	Current limit of the HEMS module in Am
Holding	1110	User ID	W	2	Write user ID (OCPP IdTag) for the curre
Holding	1112	User ID	W	2	Write user ID (OCPP IdTag) for the curre
Holding	1114	User ID	W	2	Write user ID (OCPP IdTag) for the curre
Holding	1116	User ID	W	2	Write user ID (OCPP IdTag) for the curre 15.
Holding	1118	User ID	W	2	Write user ID (OCPP IdTag) for the curre 19.