

Change History:

Revision	Date	Changes (List)
1.00	29.11.2019	– Initial version
1.01	17.12.2019	– Added register Infos – Added new register – Added data type – Added units
1.02	19.05.2020	– Added chapter additional register
1.03	28.05.2020	– Added data types of additional register – Added units of additional register – Format adjustments
1.04	17.06.2021	– Added official Notice
1.05	08.10.2021	– Correction parameter units (TQ DM 100)

Modbus Specification Webasto Live



Notice

The following description defines how the Webasto Live communicates with various Energy Management Systems regarding protocol requirements and data structure to enable dynamic control of energy flow.

Webasto does not provide support on how to understand or implement this document. All problems that arise by usage of this document are in **customer's responsibility**. Additional support is available only for the partners in case of the cooperation (for example, implementation of new HEMS from the provider). Please contact your local Webasto Partner if this is the case.

Protocol requirements

Communication with the Webasto Live can be done via Modbus TCP. The Modbus RTU Port is intended for external counters only.

Webasto Live provides its data as a Modbus server to the controlling device, which is the client or master in the network. Each Webasto Live must be addressed individually.

Parameter Modbus TCP

Each Wallbox Live must be given a unique IP.

Parameter	Value
IP-adress	Any IP address; All Webasto Live on the same subnet (e.g., xxx.xxx.xxx.xxx)
Modbus Port	502
Modbus Unit ID	255



Master dev.	Reg. Type	Address	Name	R/W	Nr. Regs.	Description	Type	Unit
TQ-DM100	Holding	1000	Charge Point State	R	1	State of the charging device 0: No vehicle attached 1: Vehicle attached, no permission 2: charging authorized 3: charging 4: charging paused 5: charge successful (car still attached) 6: charging stopped by user (car still attached) 7: charging error (car still attached) 8: charging station reserved (Nor car attached) 9: user not authorized (car attached)	UINT16	
TQ-DM100	Holding	1001	Charge State	R	1	Charging	UINT16	
TQ-DM100	Holding	1002	EVSE State	R	1	State of the charging station 0: starting 1: running 2: error	UINT16	
TQ-DM100	Holding	1004	Cable State	R	1	State of the charging cable 0: No cable attached 1: Cable attached (no car attached) 2: Cable attached (car attached) 3: Cable attached (car attached) + lock active	UINT16	
TQ-DM100	Holding	1006	EVSE Error Code	R	1	Error code of the charging station 0: no error 1+: error code	UINT16	
TQ-DM100	Holding	1008	Current L1	R	1	Charging current L1	UINT16	mA
TQ-DM100	Holding	1010	Current L2	R	1	Charging current L2	UINT16	mA
TQ-DM100	Holding	1012	Current L3	R	1	Charging current L3	UINT16	mA
TQ-DM100	Holding	1020+1021	Active Power	R	2	Electric Power that can be changed to f.e. mechanical, chemical, thermic power	UINT32	W
TQ-DM100	Holding	1036+1037	Energy meter	R	2	Meter reading of the charging station	UINT32	Wh
TQ-DM100	Holding	1100	Max current	R	1	Maximal charging current of the hardware (EVSE, cable, EV)	UINT16	A
TQ-DM100	Holding	1102	Minimum current limit	R	1	Minimal charging current of the hardware (EVSE, cable, EV)	UINT16	A
TQ-DM100	Holding	1104	Max. Current from EVSE	R	1	Maximal charging current of the charging station	UINT16	A
TQ-DM100	Holding	1106	Max. Current from Cable	R	1	Maximal charging current of the cable	UINT16	A
TQ-DM100	Holding	1108	Max. Current from EV	R	1	Maximal charging current of the EV	UINT16	A
TQ-DM100	Holding	1200	User priority	R	1	Priorities of the user 0: not defined 1: high priority ... 10: low priority	UINT16	
TQ-DM100	Holding	1300	EV Battery State (% 0-100)	R	1	Returns an estimate of the SoC	UINT16	%
TQ-DM100	Holding	1302+1303	EV Battery Capacity (Wh)	R	2	Returns an estimate of the EV Battery Capacity	UINT32	Wh
TQ-DM100	Holding	1400	Schedule Type	R	1	Type/information of traveling 0: energy that has to be charged	UINT16	

						1: Specification of the desired battery charge (Needs: state of the battery)		
TQ-DM100	Holding	1402+1403	Required Energy (Wh)	R	2	Desired energy	UINT32	Wh
TQ-DM100	Holding	1406	Required Battery State (% 0-100)	R	1	Desired state of the battery	UINT16	%
TQ-DM100	Holding	1408+1409	Scheduled Time (hhmmss)	R	2	Departure time	UINT32	Hhmmss
TQ-DM100	Holding	1412+1413	Scheduled Date (yymmdd)	R	2	Departure date	UINT32	Yymmdd
TQ-DM100	Holding	1502	Charged Energy (Wh)	R	1	Sum of charged energy for the current session	UINT16	Wh
TQ-DM100	Holding	1504+1505	Start Time (hhmmss)	R	2	Start time of charging process	UINT32	hhmmss
TQ-DM100	Holding	1508+1509	Charging Time (seconds)	R	2	Duration since beginning of charge	UINT32	s
TQ-DM100	Holding	1512+1513	End Time (hhmmss)	R	2	End time of charging process	UINT32	hhmmss
TQ-DM100	Holding	1600	User ID	R	2	User ID (OCPP IdTag) from the current session. Bytes 0 to 3.		
TQ-DM100	Holding	1602	User ID	R	2	User ID (OCPP IdTag) from the current session. Bytes 4 to 7.		
TQ-DM100	Holding	1604	User ID	R	2	User ID (OCPP IdTag) from the current session. Bytes 8 to 11.		
TQ-DM100	Holding	1606	User ID	R	2	User ID (OCPP IdTag) from the current session. Bytes 12 to 15.		
TQ-DM100	Holding	1608	User ID	R	2	User ID (OCPP IdTag) from the current session. Bytes 16 to 19.		
TQ-DM100	Holding	1620	15118 Smart vehicle detected	R	2	Returns 1 if an EV currently connected is a smart vehicle, or 0 if no EV connected or it is not a smart vehicle		
TQ-DM100	Holding	2000	safeCurrent	R/W	1	Max. charge current under communication failure	UINT16	A
TQ-DM100	Holding	2002	comTimeout	R/W	1	Communication timeout	UINT16	S
TQ-DM100	Holding	5000+5001	Charge Power	W	2	Charge power	UINT32	W
TQ-DM100	Holding	5004	Charge Current	W	1	Charge current	UINT16	A
TQ-DM100	Holding	6000	Life Bit	R/W	1	Communication monitoring o/1 Toggle-Bit EM writes 1, Live deletes it and puts it on 0.	UINT16	