Address	Term	Parameter	Remark	Туре	High Order/Low Orde
-uuress	16111	raiaiiieter	0 = Idle	туре	riigii Ordei/Low Orde
			1 = Running outwards		
1	Run Status	4	2 = Running inwards	U8	
·			3 = Waiting for time = "Next Time To Run"		
			4 = Initializing outwards 5 = Initializing inwards		
2	Actual Position	8	Resolution in 1/10mm relative to Offset	S16	
3	Distance From Target	14	Resolution in 1/10mm	S16	
			See definition of bits below		
			Bit 0 : EOS switch, Inwards (Switch activated => 1)		
	Status Register 1	51	Bit 1 : EOS switch, Outwards (Switch activated => 1) Bit 2 : Hall A Signal		
			Bit 3 : Hall B Signal	U16	
			Bit 4 : Ready (True when actuator is ready to run)		
4			Bit 5 : FET Temperature Valid		
			Bit 6 : Actual Current Valid		
			Bit 7 : Current Time Valid		
			Bit 8 : Reserved Bit 9 : LOCAL Connected (True when in service mode)		
			Bit 10 : Position valid		
			Bit 11->15 : Reserved		
			0 = Target position reached		
			1 = Current cut-off out		
			2 = Current cut-off in		
			3 = Stop command received 4 = Undervoltage detected on V_IN		
			5 = Overvoltage detected on V_IN		
5	Reason for Last Stop	50	6 = FET Temperature exceeded	U8	
5	Reason for Last Stop	50	7 = Actuator Internal Temperature exceeded	08	
			8 = Hall error		
			9 = Power Switch error		
			10 = H-bridge error 11 = High side voltage error		
			12 = Not configured/initialized		
			13 = Endstop reached		
6	Actual V_IN	23	Average mV value, updated every 100ms	U16	
7	Actual Current	28	Average mA value, updated every 100ms	U16	
8	Actuator Internal Temperature	33	Pheudo ambient temperature [°C]	S16	
9	FET Temperature	35	FET temperature [°C] If set value is out of range, actuator will deny to run	S16	
10	0#	_	Number of pulses relative to EOS switch inwards.Can only be set	1145	
	Offset	9	via the BusLink service tool	U16	
11			Resolution in 1/10mm relative to Offset.		
	Max Stroke Length	11	Used to limit stroke length (i.e. Stroke length shorter than physical	U16	
	3.		maximum).		
12	EOS Out Position	10	Can only be set via the BusLink service tool Pulses relative to EOS In. Set during production.	U16	
13	Actual Position (Pulses)	7	Pulses relative to EOS In switch	S16	
14	Actual V_SW	24	For development/production purposes. Not relevant for end-user.	U16	
15	Actual V_PUP	25	For development/production purposes. Not relevant for end-user.	U16	
16	Status Register 2	52	For development/production purposes. Not relevant for end-user.	U16	
17 18	Pulses pr. 1000mm Actuator Internal Temperature Limit	45 34	For development/production purposes. Not relevant for end-user. For development/production purposes. Not relevant for end-user.	U16 S16	
19	FET Temperature Stop Limit	36	For development/production purposes. Not relevant for end-user.	S16	
20	FET Temperature Start Limit	37	For development/production purposes. Not relevant for end-user.	S16	
21	FET Temperature Calibration Factor	38	For development/production purposes. Not relevant for end-user.	S16	
22	V_IN Maximum Limit (1s)	19	For development/production purposes. Not relevant for end-user.	U16	
23	V_IN Minimum Limit (1s)	20	For development/production purposes. Not relevant for end-user.	U16	
24 25	V_IN Maximum Limit (3ms) V_IN Minimum Limit (3ms)	21 22	For development/production purposes. Not relevant for end-user. For development/production purposes. Not relevant for end-user.	U16 U16	
26	Number of Power Fails	63	Service counter. Also available via the BusLink service tool	U32	(31:16)
27	Number of Power Fails	63	Service counter. Also available via the BusLink service tool	U32	(15:0)
28	Total Number of Starts Inwards	54	Service counter. Also available via the BusLink service tool	U32	(31:16)
29	Total Number of Starts Inwards	54	Service counter. Also available via the BusLink service tool	U32	(15:0)
30	Total Number of Starts Outwards	55	Service counter. Also available via the BusLink service tool	U32	(31:16)
31	Total Number of Starts Outwards	55	Service counter. Also available via the BusLink service tool Service counter (value in seconds). Also available via the BusLink	U32	(15:0)
32	Total Running Time	56	service tool	U32	(31:16)
22	Total Bunning Time		Service counter (value in seconds). Also available via the BusLink	1100	(45.0)
33	Total Running Time	56	service tool	U32	(15:0)
34	Maximum Current Measured	57	Also available via the BusLink service tool (value in mA)	U16	
35	Maximum FET Temperature Measured	58	Also available via the BusLink service tool (value in °C)	U16	
36	Minimum Actuator Temperature Measured	59	Also available via the BusLink service tool (value in °C)	U16	
07		22	Also available via the BusLink service tool (value is current	1100	(04.40)
37	Performed Work	60	multiplied by time [A*s])	U32	(31:16)
38	Performed Work	60	Also available via the BusLink service tool (value is current	U32	(15:0)
50	1 SHOITHER WOLK	UU	multiplied by time [A*s])	032	(13.0)
39	Number of Telegrams With Invalid	04	Service counter (invalid function code, invalid data etc.) used for	1100	(04.40)
	Content	61	debugging on system level. Also available via the BusLink service	U32	(31:16)
			tool Service counter (invalid function code, invalid data etc.) used for		
40	Number of Telegrams With Invalid	61	debugging on system level. Also available via the BusLink service	U32	(15:0)
	Content	J .	tool	502	(10.0)

41	Number of Telegrams With CRC Error	62	Service counter (total of corrupted telegrams) used for debugging on system level. Also available via the BusLink service tool.	U32	(31:16)
42	Number of Telegrams With CRC Error	62	Service counter (total of corrupted telegrams) used for debugging on system level. Also available via the BusLink service tool.	U32	(15:0)
43	Total Number of Current Cutt-Offs out	78	Service counter. Also available via the BusLink service tool	U32	(31:16)
44	Total Number of Current Cutt-Offs out	78	Service counter. Also available via the BusLink service tool	U32	(15:0)
45	Total Number of Current Cutt-Offs in	79	Service counter. Also available via the BusLink service tool	U32	(31:16)
46	Total Number of Current Cutt-Offs in	79	Service counter. Also available via the BusLink service tool	U32	(15:0)
47	Number of Times Running With Actuator Temperature Exceeded	80	Service counter. Also available via the BusLink service tool	U16	
48	Motor Voltage Before Stop	94	For development/production purposes. Not relevant for end-user.	U8	
49	Maximum Allowed Current	95	For development/production purposes. Not relevant for end-user.	U16	
50	Framework Version	74	For development/production purposes. Not relevant for end-user.	U16	
51 52	SW Version	75	For development/production purposes. Not relevant for end-user.	U16 U16	
52	Parameter List Version	1	For development/production purposes. Not relevant for end-user. Baud rate in 100's (e.g. 1152 => 115200bps)	016	
53	Remote Data Bus Baud Rate	6	Can only be set via the BusLink service tool Parity setting for Remote interface:	U16	
54	Parity	81	0 = No parity 1 = Even parity 2 = Odd parity	U8	
			Can only be set via the BusLink service tool Stop bit setting for Remote interface: 1 = 1 stop bit		
55	Number of Stop Bits	82	2 = 2 stop bits Can only be set via the BusLink service tool	U8	
56	Current Cut-Off Suppress	98	For development/production purposes. Not relevant for end-user.	U8	
57	Ramp Up Slope	47	For development/production purposes. Not relevant for end-user.	U8	
58	Ramp Down Slope	48	For development/production purposes. Not relevant for end-user. Delay in ms from reception of last character in request frame before	U8	
59	Modbus Response Delay	99	response is sent Default: 19200-1*11bit*3,5char = 2,005ms => 3ms Can only be set via the BusLink service tool	U8	
60	Command, Local	3	Can only be set via the BusLink service tool	U8	
61	PO Number	64	For development/production purposes. Not relevant for end-user.	U32	(31:16)
62	PO Number	64	For development/production purposes. Not relevant for end-user.	U32	(15:0)
63	Serial Number	65	For development/production purposes. Not relevant for end-user.	U16	(/
64	STM32 Device ID, U_ID(15:0)	66	For development/production purposes. Not relevant for end-user.	U16	
65	STM32 Device ID, U_ID(31:16)	67	For development/production purposes. Not relevant for end-user.	U16	
66	STM32 Device ID, U_ID(47:32)	68	For development/production purposes. Not relevant for end-user.	U16	
67	STM32 Device ID, U_ID(63:48)	69	For development/production purposes. Not relevant for end-user.	U16	
68	STM32 Device ID, U_ID(79:64)	70	For development/production purposes. Not relevant for end-user.	U16	
69 70	STM32 Device ID, U_ID(95:80) FET Temperature, A/D	71 72	For development/production purposes. Not relevant for end-user. For development/production purposes. Not relevant for end-user.	U16 U16	
70	Time out, Failed to Run	73	For development/production purposes. Not relevant for end-user.	U8	
72	SW Number	96	For development/production purposes. Not relevant for end-user.	U16	
73	Initialization Status	97	For development/production purposes. Not relevant for end-user.	U8	
74	A/D Value at Low Calibration Current	29	For development/production purposes. Not relevant for end-user.	U16	
75	A/D Value at High Calibration Current	30	For development/production purposes. Not relevant for end-user.	U16	
76	Low Calibration Current	31	For development/production purposes. Not relevant for end-user.	U16	
77	High Calibration Current	32	For development/production purposes. Not relevant for end-user.	U16	
78	Stroke Lenght Correction Factor	12	For development/production purposes. Not relevant for end-user.	U8	
79	Last Hall Signal	53	For development/production purposes. Not relevant for end-user.	U8	
80	STM32 Temperature AD Calibration	83	For development/production purposes. Not relevant for end-user.	U16	
81	STM32 Calibration Temperature	84	For development/production purposes. Not relevant for end-user.	S8	
82 83	Spare 1 Spare 2	89 90	For development/production purposes. Not relevant for end-user. For development/production purposes. Not relevant for end-user.	U8 U8	
84	Spare 3	91	For development/production purposes. Not relevant for end-user. Hardcoded to Modbus Holding register 1005	U8	
85	Modbus User Map Command	100	0 = No command 1 = Save Modbus User Map 2 = Set Modbus User Map to Default	U8	
86	Parameter Database Counter	101	For development/production purposes. Not relevant for end-user.	U32	(31:16)
87	Parameter Database Counter	101	For development/production purposes. Not relevant for end-user.	U32	(15:0)
88	Debug Status Register	102	For development/production purposes. Not relevant for end-user.	U32	(31:16)
89	Debug Status Register	102	For development/production purposes. Not relevant for end-user.	U32	(15:0)
90	Number Of Flash Writes	103	For development/production purposes. Not relevant for end-user.	U32	(31:16)
91	Number Of Flash Writes	103	For development/production purposes. Not relevant for end-user.	U32	(15:0)
92 93	Number Of Eeprom Writes	104 104	For development/production purposes. Not relevant for end-user. For development/production purposes. Not relevant for end-user.	U32 U32	(31:16) (15:0)
93	Number Of Eeprom Writes Number Of Power Ups	104	For development/production purposes. Not relevant for end-user. For development/production purposes. Not relevant for end-user.	U32	(31:16)
95	Number Of Power Ups	105	For development/production purposes. Not relevant for end-user.	U32	(31.10)
		100		502	(10.0)