EVSS | ELECTRONIC FAN SPEED CONTROLLER WITH TK

Modbus register map





MODBUS REGISTER MAP

IPUT REG	IISTERS				
		Data type	Description	Data	Values
	Analogue input level	unsigned int.	Analogue input value depending on the selected analogue input type.	0—100	0 = 0 VDC 100 = 10,0 VDC or 0 = 0 mA 100 = 20,0 mA
	Current output voltage	unsigned int.	Actual output voltage	0 30—100	0 = 0 % Us 30 = 30 % Us 100 = 100 % Us
	Analogue input type	unsigned int.	Type of the selected analogue input	0—1	0 = 0-20 mA 1 = 0-10 VDC
ŀ	Ascending / descending input mode	unsigned int.	Ascending or descending analogue input mode depending on the selected analogue input type.	0—1	$0 = 10 - 0 \text{ VDC} \\ 1 = 0 - 10 \text{ VDC} \\ \text{or} \\ 0 = 20 - 0 \text{ mA} \\ 1 = 0 - 20 \text{ mA}$
	Maximum output voltage	unsigned int.	Maximum output voltage	75—100	75 = 75 % Us 100 = 100 % Us
	Minimum output voltage	unsigned int.	Minimum output voltage	30–70	30 = 30 % Us 70 = 70 % Us
	Enable off level	unsigned int.	Enables off level	0—1	0 = Disabled 1 = Enabled
3	Off level value	unsigned int.	Off level value depending on the selected analogue input type and ascending / descending analogue input mode.	0—40 60—100	Ascending mode:
					Voltage 0 = 0 VDC 400 = 4,0 VDC Current 0 = 0 = 0 mA 200 = 8,0 mA
					Descending mode:
					Voltage 100 = 10,0 VDC 60 = 6,0 VDC Current 100 = 20,0 mA 60 = 12,0 mA



9	Kick start / soft start	unsigned int.	Selects kick start or soft start	0—1	0 = soft start 1 = kick start
10	Remote control input	unsigned int.	Remote control input	0—1	0 = Disabled 1 = Enabled
12	L1 control	unsigned int.	L1 control	0—1	0 = Off 1 = On
13	Alarm LED	unsigned int.	Alarm LED	0—1	0 = Off 1 = On
14	ON/Stand-by LED	unsigned int.	ON/Stand-by LED	0–2	0 = Off 1 = On 2 = Stand-by
15-20			Reserved, return 0		

		Data type	Description	Data	Default	Values	
	Device slave address	unsigned int.	Modbus device address	1—247	1		
2	Modbus baud rate	unsigned int.	Modbus communication baud rate	1—4	2	2 = 3 =	
3	Modbus parity	unsigned int.	Parity check mode	0—2	1		8N1 8E1 8O1
4	Device type	unsigned int.	Device type (Read only)	EVSS-DM = 3005			
5	HW version	unsigned int.	Hardware version of the device (Read only)	XXXX		0 x 0300 =	HW version 3.00
6	FW version	unsigned int.	Firmware version of the device (Read only)	XXXX		0 x 0140 =	FW version 1.40
7	Operating mode	unsigned int.	Enables Modbus control and disables the DIP switch and trimmers	0—1	0		Standalone mode Modbus mode
8	Output override	unsigned int.	Enables the direct control over the output. Always settable. Active only if holding register 7 is set to 1.	0—1	0		Disabled Enabled
9-10			Reserved, return 0				
11	Analogue input type	unsigned int.	Selects the analogue input type of the device. <i>Always settable. Active only if holding register 7 is set to 1.</i>	0—1	1		0—20 mA 0—10 VDC
12	Ascending / descending analogue input mode	unsigned int.	Ascending / descending analogue input mode. Depends on the selected analogue input type. Always settable. Active only if holding register 7 is set to 1.	0—1	1	1 = 0 =	10-0 VDC 0-10 VDC or 20-0 mA 0-20 mA

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13	Maximum output voltage	unsigned int.	Maximum settable output voltage. <i>Always settable. Active only if holding register 7 is set to 1.</i>	75–100	100		75 % Us 100 % Us
4	Minimum output voltage	unsigned int.	Minimum settable output voltage. <i>Always settable. Active only if holding register 7 is set to 1.</i>	30-70	30		30 % Us 00 % Us
5	Enable off level	unsigned int.	Enables off level. Always settable. Active only if holding register 7 is set to 1.	0—1	0		Disabled Enabled
16	Off level value	unsigned int.	Off level value. Depends on the selected analogue input type and ascending / descending analogue input mode. Always settable. Active only if holding register 7 is set to 1.	0-40	0	0 = 40 = 0 =	nding mode: Voltage 0 VDC 4,0 VDC Current 0 mA 8,0 mA
0				60—100		Desce	ending mode:
						100 = 60 = 100 =	Voltage 10,0 VDC 6,0 VDC Current 20,0 mA 12,0 mA
17	Kick start / soft start	unsigned int.	Selects kick start or soft start. <i>Always settable. Active only if holding register</i> 7 is set to 1.	0—1	1		Soft start Kick start
18	Kick start / soft start duration	unsigned int.	Sets the duration time. Always settable. Active only if holding register 7 is set to 1.	0-60	10	0 = 60 =	
9	Remote control functionality	unsigned int.	Sets the remote control input mode. <i>Depends on the selected kick start or soft start mode. Always settable. Active only if holding register 7 is set to 1.</i>	0—1	0		Normal mode Timer mode
20	Analogue input functionality	unsigned int.	Sets the analogue input functionality. <i>Depends on the selected kick start or soft start. Always settable. Active only if holding register 7 is set to 1.</i>	0—1	0		Normal mode Logic mode
21	Operation timer	unsigned int.	Sets the operation time of the device when Timer mode by remote control input or Logic mode by the analogue input is selected. The operation time is additional to the kick start / soft start duration times. <i>Always settable. Active only if holding registers 7 and 19 or / and 20 are set to 1.</i>	0-200	60	0 = 200 =	
22-30			Reserved, return 0				
81	Output override value	unsigned int.	Override value for the analogue output. Always settable. Active only if holding register 8 is set to 1.	0 30—100	0	30 =	0 % Us 30 % Us 100 % Us
			Reserved, return 0				