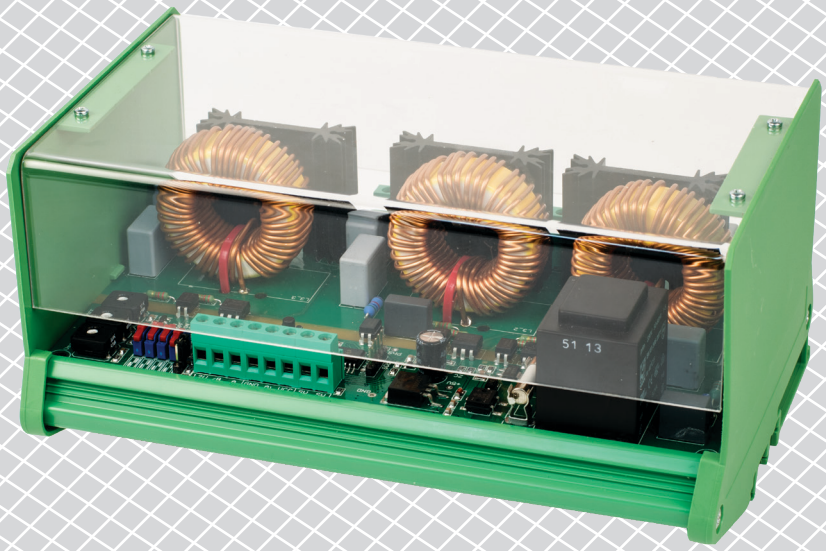
TVSS5 | THREE-PHASE ELECTRONIC FAN SPEED CONTROLLER

Modbus register map



MODBUS REGISTER MAP

INPUT REGISTERS

		Data type	Description	Raw data range	Values
1	Output value	unsigned integer	Current output voltage	0—400	300 = 300 VAC
2	Vmin	unsigned integer	Minimum output voltage	80—250	100 = 100 VAC
3	Vmax	unsigned integer	Maximum output voltage	260—400	330 = 330 VAC
4	Voff	unsigned integer	Off Level Voltage.	10—600	100 = 1,00 VDC 600 = 6,00 VDC
4—9			Reserved, return 0		
10	TK alarm	unsigned integer	TK - motor thermal protection	0—1	
11	Phase failure alarm	unsigned integer	Phase failure alarm	0—1	0 = OK 1 = Phase failure
12	Remote off	unsigned integer	Remote On/Off status (for BMS)	0—1	0 = Normal 1 = Standby by remote off
13	Off level	unsigned integer	Off level status	0—1	0 = Normal 1 = Standby by Off level
14—18			Reserved, return 0		

Note: The input registers can be read via the Modbus command: “Read input registers”.

HOLDING REGISTERS

		Data type	Description	Raw data range	Values	Factory default values
1	Modbus address	unsigned integer	Device address	1—247		1
2	Modbus baud rate	unsigned integer	Modbus communication baud rate	1—3	1 = 9.600 2 = 19.200 3 = 38.400	2
3	Modbus parity mode	unsigned integer	Parity check mode	0—2	0 = 8N1 1 = 8E1 2 = 8O1	1
4	Device type	unsigned integer	Device type, read only	3.000	TVSS5 = 3.000	
5	HW version	unsigned integer	Hardware version, read only	XXXX	0x0100 = HW version 3.00	
6	FW version	unsigned integer	Firmware version, read only	XXXX	0x0110 = FW version 1.1	
7	Modbus enable	unsigned integer	Operation Mode	0—1	0 = Standalone mode 1 = Modbus mode	0
8—10			Reserved. Returns 0.			
11	Kick start	unsigned integer	Kick start On/Off	0—1	0 = Disabled 1 = Enabled	1
12	Remote	unsigned integer	Remote On/Off (for BMS)	0—1	0 = Disabled 1 = Enabled	1
13	Off Level	unsigned integer	Off level On/Off	0—1	0 = Disabled 1 = Enabled	1
14	0—10 VDC / 10—0 VDC	unsigned integer	0-10V/10V-0.	0—1	0 = Disabled 1 = Enabled	1

HOLDING REGISTERS

		Data type	Description	Raw data range	Values	Factory default values
15	Modbus timeout		Timeout in minutes. Stop the controller if there is no communication after time has passed.	0, 1—60	0 = Disabled 1—60 = Time out enabled	0
16—20			Reserved, return 0			
21	Vout overwrite	unsigned integer	Set output voltage overwrite value	0, 80—400	0 = according to input signal Ai 400 = 400 VAC	0
22	Vmin	unsigned integer	Set minimum output voltage	0, 80—250	0 = according to Vmin trimmer setting 120 = 120 VAC	0
23	Vmax	unsigned integer	Set maximum output voltage	0, 260—400	0 = according to Vmax trimmer setting 300 = 300 VAC	0
24	Voff	unsigned integer	Set off level voltage	0, 10—600	0 = according to OFF level trimmer setting 100 = 1 VDC 600 = 6VDC	0
25—30			Reserved, return 0			

Note: The holding registers can be managed via the following Modbus commands: "Read Holding Registers", "Write Single Register" or "Write Multiple Registers".

The free Sentera configuration and monitoring software 3SModbus can be downloaded via: *https://www.sentera.eu/en/3smcenter*