

GTEX1-60-DM | ELECTRONIC FAN SPEED CONTROLLER

Modbus register map



MODBUS REGISTER MAP

INPUT REGISTERS						
		Data type	Description	Raw data range	Values	
1	Temperature input	unsigned integer	Analogue input value depending on selected analogue input type	0–600	0 = 0,0 °C 600 = 60,0 °C	
2	Vmax	unsigned integer	Max. motor speed value	170–230	170 = 170 VAC 230 = 230 VAC	
3	Vmin	unsigned integer	Min. motor speed value	80–160	80 = 80 VAC 160 = 160 VAC	
4	Output voltage	unsigned integer	Current output voltage	0,80–230	0 = 0 VAC 80 = 80 VAC 230 = 230 VAC	
5	Temperature setpoint	unsigned integer	Temperature setpoint value	GTE21-60-DM	50–350	50 = 5,0 °C 350 = 35,0 °C
				GTE-1-60-DM	150–350	150 = 15,0 °C 350 = 35,0 °C
6	Proportional range	unsigned integer	Proportional temperature value	1–4	1 = 2 °C 2 = 4 °C 3 = 6 °C 4 = 8 °C	
7	Hysteresis	unsigned integer	Hysteresis value	1–4	1 = 0,5 °C 2 = 1 °C 3 = 2 °C 4 = 3 °C	
8	Off level	unsigned int.	Off level value	0, 1	0 = OFF 1 = ON	
9	Sensor status	unsigned int.	Analog input sensor status	0, 1	0 = Connected 1 = Disconnected	
10	Power Frequency	unsigned int.	Selected supply voltage frequency	0, 1	0 = 50 Hz 1 = 60 Hz	

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	Address	unsigned int.	Modbus device address	1–247	1	
2	Modbus baud rate	unsigned int.	Modbus communication baud rate	1–4	2	1 = 9.600 2 = 19.200 3 = 38.400 4 = 57.600
3	Modbus parity	unsigned int.	Parity check mode	0–2	1	0 = 8N1 1 = 8E1 2 = 8O1
4	Device type	unsigned int.	Device type (Read only)	GTE-1-60-DM=3003 GTE21-60-DM = 3013		
5	HW version	unsigned int.	Hardware version of the device (Read only)	200		0 x 200 = HW version 2.00 0 x 220 = SW version 2.20
6	SW version	unsigned int.	Software version of the device (Read only)	220		
7	Operating mode	unsigned int.	Mode of operations	0–1	0	0 = Standalone mode 1 = Modbus mode
8	Output overwrite	unsigned int.	Output overwrite mode	0–1	0	0 = Disabled 1 = Enabled
9–10			Reserved, return 0			
11	Vmax	unsigned int.	Max. motor speed value.	170–230	230	170 = 170 VAC 230 = 230 VAC
12	Vmin	unsigned int.	Min. motor speed value	80–160	80	80 = 80 VAC 160 = 160 VAC
13	Temperature setpoint	unsigned int.	Temperature setpoint value	GTE21-60-DM	150	50 = 5,0 °C 350 = 35,0 °C
				GTE-1-60-DM		150–350
14	Proportional range	unsigned int.	Proportional range value	1–4	2	1 = 2 °C 2 = 4 °C 3 = 6 °C 4 = 8 °C

HOLDING REGISTERS						
		Data type	Description	Raw data range	Values	Factory default values
15	Hysterisis	unsigned int.	Hysterisis value	1–4	3	1 = 0,5 °C 2 = 1 °C 3 = 2 °C 4 = 3 °C
16	Off level	unsigned int.	Off level value	0–1	0	0 = OFF 1 = ON
17	Modbus time-out control	unsigned int.	Modbus time-out control value	0–1	0	0 = Disabled 1 = Enabled
18	Modbust time-out	unsigned int.	Modbus time-out value	1 - 60	1	1 = 1 min 60 = 60 min
19	Vout	unsigned int.	Set override output voltage.	0,80–230 Always settable. Active only if holding registers 8 is set to 1	0	0 = 0 VAC 80 = 80 VAC 230 = 230 VAC
20	Power Frequency	unsigned int.	Select supply voltage frequency	0–1	0	0 = 50 Hz 1 = 60 Hz

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>