

TVS43 / TC250D Modbus Register Map

Technical Data

Communication (RTU)	RS-485 2-wire
Baud rate	9600/19200/38400/57600
Word length	8 bits
Parity	none/odd/even
Stop bits	1 or 2
	2 stop bits with no parity

Holding Registers (40001-49999) - All are 16-bit unsigned integers

Register Map

Register	R/W	Description	Unit	Default	Min	Max	Notes
4×0001	R	Program Version					Major Version
4×0002	R	Program Version					Minor Version
4×0003	R	Unit address	1-127	1	1	127	
4×0004	R	Temperature	F				
4×0005	R	Output signal	%			100	
4×0006	R	Feedback	%			100	
4×0007	R	Sensor Error	0-1			1	0 = OK, 1 = open or shorted sensor
4×0008	R	High temperature alarm	0-1			1	0 = No alarm, 1 = Alarm
4×0009	R,W	Temperature display unit	0-1	F	C	F	F = 0, C = 1
4×0010	R,W	Setpoint temperature	F	100	40	205	
4×0011	R,W	P-band	F	50	9	360	
4×0012	R,W	I-time	seconds	12	1	480	0 = OFF
4×0013	R,W	Dead zone activation point	Vdc	9		10	
4×0014	R,W	Dead zone temperature	F	4	4	12	
4×0015	R,W	Feedback range	0-1	2-10	0-10	2-10	0 = 0-10V, 1 = 2-10V
4×0016	R,W	Output range	0-1	0-10	0-10	2-10	0 = 0-10V, 1 = 2-10V
4×0017	R,W	Direct acting output	0-1	Direct	Direct	Reverse	0 = direct, 1 = reverse
4×0018	R,W	Actuator run time	0-4	1		4	0=15s, 1=25s, 2=60s, 3=120s, 4=180s
4×0019	R,W	Limit over setpoint	F	OFF	14	40	14 = OFF
4×0020	R,W	Limit time delay	seconds	3	10	300	
4×0021	W	Alarm Reset	1				1 = Reset alarm, cannot be read
4×0049	R	Auto discovery	1499				Always returns the valve 1499