

PSBE 9000 register list for devices with KE firmware from V2.24 (standard) (check the installed version in your device's MENU in item INFO HW, SW)

Modbus address	Read coils (0x01)	Read holding registers (0x03)	Write single coil (0x05)	Write single register (0x06)	Write multiple registers (0x10)	Description	Access	Data type	Data length in bytes	Number of registers	Data	Example	Profibus slot / Profinet subslot	Profibus/Profinet index in slot	EtherCAT SDO/PDO?
0	x					Device class	R	uint(16)	2	1		64 = PSBE 9000 Series	1	0	x
1	x					Device type	R	char	40	20	ASCII	PSBE 9080-360	1	1	x
21	x					Manufacturer	R	char	40	20	ASCII		1	2	x
41	x					Manufacturer address	R	char	40	20	ASCII		1	3	x
61	x					Manufacturer ZIP code	R	char	40	20	ASCII		1	4	x
81	x					Manufacturer phone number	R	char	40	20	ASCII		1	5	x
101	x					Manufacturer website	R	char	40	20	ASCII		1	6	x
121	x					Nominal voltage	R	float	4	2	Floating point number IEEE754	80	1	7	x
123	x					Nominal current	R	float	4	2	Floating point number IEEE754	360	1	8	x
125	x					Nominal power	R	float	4	2	Floating point number IEEE754	15000	1	9	x
127	x					Max. internal resistance	R	float	4	2	Floating point number IEEE754	10	1	10	x
129	x					Min. internal resistance	R	float	4	2	Floating point number IEEE754	0.006	1	11	x
131	x					Article no.	R	char	40	20	ASCII	30000325	1	12	x
151	x					Serial no.	R	char	40	20	ASCII	1234560001	1	13	x
171	x			x		User text	RW	char	40	20	ASCII		1	14	x
191	x					Firmware version (KE)	R	char	40	20	ASCII		1	15	x
211	x					Firmware version (HM)	R	char	40	20	ASCII		1	16	x
231	x					Firmware version (DR)	R	char	40	20	ASCII		1	17	x
402	x		x			Remote mode	RW	uint(16)	2	1	Coils : Remote	0x0000 = off; 0xFF00 = on	2	1	x
405	x		x			DC output/input	RW	uint(16)	2	1	Coils : Output	0x0000 = off; 0xFF00 = on	2	4	x
407	x		x			Condition of DC output/input after power fail alarm	RW	uint(16)	2	1	Coils : Auto-On	0x0000 = off; 0xFF00 = auto-on	3	30	x
408	x		x	x		Condition of DC output/input after powering the device	RW	uint(16)	2	1	Reg : Power-On	0xFFFF = off; 0xFFFE = restore	2	6	x
410		x				Restart of the device (warm start)	W	uint(16)	2	1	Coils : Restart	0xFF00 = execute	2	8	x
411		x				Acknowledge alarms	W	uint(16)	2	1	Coils : Alarms	0xFF00 = acknowledge	2	9	x
416	x		x			Analog interface: Reference voltage (pin VREF)	RW	uint(16)	2	1	Coils : VREF	0x0000 = 10V; 0xFF00 = 5V	2	14	x
417	x		x			Analog interface: REM-SB level	RW	uint(16)	2	1	Coils : REM-SB Level	0x0000 = normal; 0xFF00 = inverted	2	36	x
418	x		x			Analog interface: REM-SB action	W	uint(16)	2	1	Coils : REM-SB Action	0x0000 = DC off; 0xFF00 = DC auto	2	37	x
425	x		x			DC output/input after leaving remote	RW	uint(16)	2	1	Coils : Condition	0x0000 = off; 0xFF00 = unchanged			
440		x		x		Analog interface: Pin 14 configuration	RW	uint(16)	2	1	Alarms 1	0x0000 = OVP (default); 0x0001 = OCP; 0x0002 = OPP; 0x0003 = OVP + OCP; 0x0004 = OVP + OPP; 0x0005 = OCP + OPP; 0x0006 = OVP + OCP + OPP;			
441		x		x		Analog interface: Pin 6 configuration	RW	uint(16)	2	1	Alarms 2	0x0000 = OT + PF (default); 0x0001 = OT; 0x0002 = PF;			
442		x		x		Analog interface: Pin 15 configuration	RW	uint(16)	2	1	Status DC	0x0000 = CV; 0x0001 = DC output status			
498	x		x			Sink mode: Set power value	RW	uint(16)	2	1	0x0000 - 0xDOE5 (0 - 102%)	Power value (for translation see programming guide)	2	21	x
499	x		x			Sink mode: Set current value	RW	uint(16)	2	1	0x0000 - 0xDOE5 (0 - 102%)	Current value (for translation see programming guide)	2	20	x
500	x		x			Set voltage value	RW	uint(16)	2	1	0x0000 - 0xDOE5 (0 - 102%)	Voltage value (for translation see programming guide)	2	23	x
501	x		x			Source mode: Set current value	RW	uint(16)	2	1	0x0000 - 0xDOE5 (0 - 102%)	Current value (for translation see programming guide)	2	24	x
502	x		x			Source mode: Set power value	RW	uint(16)	2	1	0x0000 - 0xDOE5 (0 - 102%)	Power value (for translation see programming guide)	2	25	x
505		x				Device state	R	uint(32)	4	2	Bit 0-4: Control location	0x0 = free; 0x01 = local; 0x03 = USB; 0x04 = analog; 0x05 = Profibus; 0x06 = Ethernet; 0x08 = Master/Slave; 0x09 = RS232; 0x10 = CANopen; 0x12 = Modbus TCP 1P; 0x13 = Profinet 1P; 0x14 = Ethernet 1P; 0x15 = Ethernet 2P; 0x16 = Modbus TCP 2P; 0x17 = Profinet 2P; 0x18 = GPIB; 0x19 = CAN; 0x1A = EtherCAT	2	27	x
						Bit 6 : Master-slave type					0 = Slave; 1 = Master				
						Bit 7 : Output state					0 = off; 1 = on				
						Bit 8 : Calibration is enabled					0 = off; 1 = on				
						Bit 9-10 : Regulation mode					00 = CV; 10 = CC; 11 = CP				
						Bit 12 : PSB/PSBE 9000 operation mode					0 = source; 1 = sink				
						Bit 14 : External sense					0 = off; 1 = on				
						Bit 15 : Alarm					0 = none; 1 = active				
						Bit 16 : OVP					0 = none; 1 = active				
						Bit 17 : OCP					0 = none; 1 = active				
						Bit 18 : OPP					0 = none; 1 = active				
						Bit 19 : OT					0 = none; 1 = active				
						Bit 21 : Power fail 1					0 = none; 1 = active				
						Bit 22 : Power fail 2					0 = none; 1 = active				
						Bit 23 : Power fail 3					0 = none; 1 = active				
						Bit 29 : MSP					0 = OK; 1 = Master-slave protection				
						Bit 30 : REM-SB					0 = DC enabled; 1 = REM-SB disables power output				
						Bit 31 : OCP/OPP cause					0 = source mode; 1 = sink mode				
507		x				Actual voltage	R	uint(16)	2	1	0x0000 - 0xFFFF (0 - 125%)	Actual voltage (for translation see programming guide)	2	28	x
508		x				Actual current	R	uint(16)	2	1	0x0000 - 0xFFFF (0 - 125%)	Actual current (for translation see programming guide)	2	29	x
509		x				Actual power	R	uint(16)	2	1	0x0000 - 0xFFFF (0 - 125%)	Actual power (for translation see programming guide)	2	30	x
520		x				Count of OV alarms since power up	R	uint(16)	2	1	0x0000 - 0xFFFF		3	20	x
521		x				Source mode: Count of OC alarms since power up	R	uint(16)	2	1	0x0000 - 0xFFFF		3	21	x
522		x				Source mode: Count of OP alarms since power up	R	uint(16)	2	1	0x0000 - 0xFFFF		3	22	x
523		x				Count of OT alarms since power up	R	uint(16)	2	1	0x0000 - 0xFFFF		3	23	x
524		x				Count of PF alarms since power up	R	uint(16)	2	1	0x0000 - 0xFFFF		3	24	x
525		x				Sink mode: Count of PF alarms since power up	R	uint(16)	2	1	0x0000 - 0xFFFF		3	25	x
526		x				Sink mode: Count of OP alarms since power up	R	uint(16)	2	1	0x0000 - 0xFFFF		3	26	x
550		x		x		Overvoltage protection threshold (OVP)	RW	uint(16)	2	1	0x0000 - 0xE147 (0 - 110%)	OVP threshold (for translation see programming guide)	3	0	x
553		x		x		Source mode: Overcurrent protection threshold (OCP)	RW	uint(16)	2	1	0x0000 - 0xE147 (0 - 110%)	OCP threshold (for translation see programming guide)	3	3	x
556		x		x		Source mode: Overpower protection threshold (OPP)	RW	uint(16)	2	1	0x0000 - 0xE147 (0 - 110%)	OPP threshold (for translation see programming guide)	3	6	x
569		x		x		Sink mode: Overcurrent protection threshold OCP	RW	uint(16)	2	1	0x0000 - 0xE147 (0 - 110%)	OCP threshold (for translation see programming guide)	3	4	x
570		x		x		Sink mode: Overpower protection threshold OPP	RW	uint(16)	2	1	0x0000 - 0xE147 (0 - 110%)	OPP threshold (for translation see programming guide)	3	7	x
650		x		x		Master-slave: Link mode on MS bus	RW	uint(16)	2	1	Coils : Mode	0x0000 = Slave; 0xFF00 = Master	4	0	x
653		x		x		Master-slave: Enable MS	RW	uint(16)	2	1	Coils : MS on/off	0x0000 = off; 0xFF00 = on	4	3	x
654			x			Master-slave: Init MS	W	uint(16)	2	1	Coils : MS start init	0xFF00 = Start init	4	4	x
655			x	x		Master-slave: Condition	R	uint(16)	2	1	Reg : MS status	0x0000 = not initialised; 0x0001 = init running; 0x0003 = set defaults; 0x0004 = setup interface; 0x0005 = assignment; 0xFFFC = disrupted; 0xFFFD = different models detected; init not OK; 0xFFFE = error; 0xFFFF = init OK	4	5	x
656		x				Master-slave: Total voltage in V	R	float	4	2	Floating point number IEEE754	500	4	6	x
658		x				Master-slave: Total current in A	R	float	4	2	Floating point number IEEE754	300	4	7	x
660		x				Master-slave: Total power in W	R	float	4	2	Floating point number IEEE754	1500	4	8	x
662		x				Master-slave: Number of initialised slaves	R	uint(16)	2	1		1...15	4	9	x
9000		x		x		Upper limit of voltage set value (U-max)	RW	uint(16)	2	1	0x0000 - 0xDOE5 (0 - 102%)	Voltage value (for translation see programming guide)	2	31	x
9001		x		x		Lower limit of voltage set value (U-min)	RW	uint(16)	2	1	0x0000 - 0xDOE5 (0 - 102%)	Voltage value (for translation see programming guide)	2	32	x
9002		x		x		Source mode: Upper limit of current set value (I-max)	RW	uint(16)	2	1	0x0000 - 0xDOE5 (0 - 102%)	Current value (for translation see programming guide)	2	33	x
9003		x		x		Source mode: Lower limit of current set value (I-min)	RW	uint(16)	2	1	0x0000 - 0xDOE5 (0 - 102%)	Current value (for translation see programming guide)	2	34	x
9004		x		x		Source mode: Upper limit of power set value (P-max)	RW	uint(16)	2	1	0x0000 - 0xDOE5 (0 - 102%)	Power value (for translation see programming guide)	2	35	x
9005		x		x		Sink mode: Upper limit of power set value (P-max)	RW	uint(16)	2	1	0x0000 - 0xDOE5 (0 - 102%)	Power value (for translation see programming guide)	2	36	x
9008		x		x		Sink mode: Upper limit of current set value (I-max)	RW	uint(16)	2	1	0x0000 - 0xDOE5 (0 - 102%)	Current value (for translation see programming guide)	2	40	x
9009		x		x		Sink mode: Lower limit of current set value (I-min)	RW	uint(16)	2	1	0x0000 - 0xDOE5 (0 - 102%)	Current value (for translation see programming guide)	2	41	x
10007		x		x		Ethernet: TCP keep-alive timeout	RW	uint(16)	2	1	Coils: Keep-alive on/off	0x0000 = off; 0xFF00 = on			
10008		x		x		Ethernet/Profinet/Modbus TCP: DHCP	RW	uint(16)	2	1	Coils: DHCP on/off	0x0000 = off; 0xFF00 = on			
10010		x		x		Protocol: Modbus	RW	uint(16)	2	1	Coils: MODBUS on/off	0x0000 = off; 0xFF00 = on			
10011		x		x		Protocol: SCPI	RW	uint(16)	2	1	Coils: SCPI on/off	0x0000 = off; 0xFF00 = on			
10020			x			AnyBus module: Type	R	uint(16)	2	1	Reg: Type	0x0005 = Profibus 0x0009 = RS232 0x0010 = CANopen 0x0011 = DeviceNet 0x0012 = Modbus-TCP 1P 0x0013 = Profinet 1P 0x0014 = Ethernet 1P 0x0015 = Ethernet 2P 0x0016 = Modbus-TCP 2P 0x0017 = Profinet 2P 0x0019 = CAN 0x001A = EtherCAT 0x00FF = no or unknown module plugged			x
10021		x				AnyBus module: Interface type	R	char	40	20	ASCII	"Profibus DPV1"			x
10041		x				AnyBus module: Version number	R	uint(8)	4	2					x
10043		x				AnyBus module: Serial number	RW	uint(32)	4	2					x
10251		x		x		Profibus: Ident number	RW	uint(16)	2	1		0xA001	8	0	
10252		x		x		Profibus/CANopen: Slave address	RW	uint(16)	2	1		0x0000 - 0-125; CANopen: 0-127	8	1	
10253		x		x		Profibus/Profinet: User-definable "Function tag"	RW	char	32	16	ASCII	"Test"	8	2	
10289		x		x		Profibus/Profinet: User-definable "Location tag"	RW	char	22	11	ASCII	"Test"	8	3	
10280		x		x		Profibus/Profinet: User-definable installation date	RW	char	40	20	ASCII	"13.01.2012 09:59:00"	8	4	
10300		x		x		Profibus/Profinet: User-definable description	RW	char	54	27	ASCII	"www.webpage.de"	8	5	
10354		x		x		Profinet: User-definable "Station name"	RW	char	200	100	ASCII	"Test"	8	6	
10502		x		x		Ethernet/Modbus TCP: IP address	RW	uint(8)	4	2	Bytes 0-3: 0..255	192.168.0.2 (default)			
10504		x		x		Ethernet/Modbus TCP: Subnet mask	RW	uint(8)	4	2	Bytes 0-3: 0..255	255.255.255.0 (default)			
10506		x		x		Ethernet/Modbus TCP: Gateway	RW	uint(8)	4	2	Bytes 0-3: 0..255	192.168.0.1 (default)			
10508		x		x		Ethernet/Profinet/Modbus TCP: Host name	RW	char	54	27	ASCII	"Client" (default)			
10535		x		x		Ethernet/Profinet/Modbus TCP: Domain name	RW	char	54	27	ASCII	"Workgroup" (default)			
10562		x		x		Ethernet/Modbus TCP: DNS 1	RW	uint(8)	4	2	5..65535 0 = infinity/vars	0.0.0.0 (default)			