PSBE 9000 register list for devices with KE firmware from V2.29 (standard) (check the installed version in your device's MENU in item INFO HW, SW)

Modbus address (dec)	Modbus address (hex)	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	0x0000		x				Device class	R	uint(16)	2	1			1	0	x
1	0x0001		x				Device type	R	char	40	20	ASCII	PSBE 9080-360	1	1	x
21	0x0015		x				Manufacturer	R	char	40	20	ASCII		1	2	x
41	0x0029		x				Manufacturer address	R	char	40	20	ASCII		1	3	x
61	0x003D		x				Manufacturer ZIP code	R	char	40	20	ASCII		1	4	x
81	0x0051		x				Manufacturer phone number	R	char	40	20	ASCII		1	5	x
101	0x0065		x				Manufacturer website	R	char	40	20	ASCII		1	6	x
121	0x0079		x				Nominal voltage	R	float	4	2	Floating point number IEEE754	80	1	7	x
123	0x007B		x				Nominal current	R	float	4	2	Floating point number IEEE754	360	1	8	x
125	0x007D		x				Nominal power	R	float	4	2	Floating point number IEEE754	15000	1	9	x
127	0x007F		x				Max. Internal resistance	R	float	4	2	Floating point number IEEE754	10	1	10	x
129	0x0081		x				Min. Internal resistance	R	float	4	2	Floating point number IEEE754	0.006	1	11	x
131	0x0083		x				Article no.	R	char	40	20	ASCII	30000325	1	12	x
151	0x0097		x				Serial no.	R	char	40	20	ASCII	1234560001	1	13	x
171	0x00AB		x			x	User text	RW	char	40	20	ASCII		1	14	x
191	0x00BF		x				Firmware version (KE)	R	char	40	20	ASCII		1	15	x
211	0x00D3		x				Firmware version (HMI)	R	char	40	20	ASCII		1	16	x
231	0x00E7		x				Firmware version (DR)	R	char	40	20	ASCII		1	17	x
402	0x0192	x		x			Remote mode	RW	uint(16)	2	1	Coil : Remote	0x0000 = off; 0xFF00 = on	2	1	x
405	0x0195	x		x			DC output/input	RW	uint(16)	2	1	Coil : Output	0x0000 = off; 0xFF00 = on	2	4	x
407	0x0197	x		x			Condition of DC output/input after power fail alarm	RW	uint(16)	2	1	Coil : Auto-On	0x0000 = off; 0xFF00 = auto	3	30	x
408	0x0198		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	0x019A			x			Restart of the device (warm start)	W	uint(16)	2	1	Coil : Restart	0xFF00 = execute	2	8	x
411	0x019B			x			Acknowledge alarms	W	uint(16)	2	1	Coil : Alarms	0xFF00 = acknowledge	2	9	x
416	0x01A0	x		x			Analog interface: Reference voltage (pin VREF)	RW	uint(16)	2	1	Coil : VREF	0x0000 = 10V; 0xFF00 = 5V	2	14	x
417	0x01A1	x		x			Analog interface: REM-SB level	RW	uint(16)	2	1	Coil : REM-SB Level	0x0000 = normal; 0xFF00 = inverted	2	36	x
418	0x01A2			x			Analog interface: REM-SB action	RW	uint(16)	2	1	Coil : REM-SB Action	0x0000 = off; 0xFF00 = auto	2	37	x
425	0x01A9	x		x			Condition of DC output after leaving remote	RW	uint(16)	2	1	Coil : Condition	0x0000 = off; 0xFF00 = unchanged	2	42	x
432	0x01B0	x		x			Reset device to factory settings	RW	uint(16)	2	1	Coil : Condition	0xFF00 = Trigger reset	2	43	x
440	0x01B8		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	2	44	x
441	0x01B9		x		x		Analog interface: Pin 6 configuration	RW	uint(16)	2	1	Alarms 2	0x0000 = OT + PF (default); 0x0001 = OT; 0x0002 = PF	2	45	x
442	0x01BA		x		x		Analog interface: Pin 15 configuration	RW	uint(16)	2	1	Status DC / reg. mode	0x0000 = CV; 0x0001 = DC output status	2	46	x
443	0x01BB		x		x		Analog interface: Pins 9 and 10 configuration	RW	uint(16)	2	1	Current and voltage monitor	0x0000 = Default (VMON on pin 9 and CMON on Pin 10 / Pin 10 signals current from source or sink); 0x0001 = Pin 10 (CMON) only signals sink current (EL); 0x0002 = Pin 10 (CMON) only signals source current (PS); 0x0003 = Current mode A [source current (PS) on pin 9 and sink current (EL) on pin 10 (full range)]; 0x0004 = Current mode B [source current (PS) on pin 10 and sink current (EL) on pin 9 (full range)]; 0x0005 = Pin 10 (CMON) signals EL/PS current (0...10 V ^= -100%...0...100%, half range signal)	2	50	x
498	0x01F2		x		x		Sink mode: Set power value	RW	uint(16)	2	1	0x0000 - 0xD0E5 (0 - 102%)	Power value (for translation see programming guide)	2	21	x
499	0x01F3		x		x		Sink mode: Set current value	RW	uint(16)	2	1	0x0000 - 0xD0E5 (0 - 102%)	Current value (for translation see programming guide)	2	20	x
500	0x01F4		x		x		Set voltage value	RW	uint(16)	2	1	0x0000 - 0xD0E5 (0 - 102%)	Voltage value (for translation see programming guide)	2	23	x
501	0x01F5		x		x		Source mode: Set current value	RW	uint(16)	2	1	0x0000 - 0xD0E5 (0 - 102%)	Current value (for translation see programming guide)	2	24	x
502	0x01F6		x		x		Source mode: Set power value	RW	uint(16)	2	1	0x0000 - 0xD0E5 (0 - 102%)	Power value (for translation see programming guide)	2	25	x
505	0x01F9		x				Device state	R	uint(32)	4	2	Bit 0- 4: Control location	0x00 = 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 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 : Alarms	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 21-23: Power fail	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-OCD/OPD cause	0 = source mode; 1 = sink mode			
507	0x01FB		x				Actual voltage	R	uint(16)	2	1	0x0000 - 0xFFFF (0 - 125%)	Actual voltage (for translation see programming guide)	2	28	x
508	0x01FC		x				Actual current	R	uint(16)	2	1	0x0000 - 0xFFFF (0 - 125%)	Actual current (for translation see programming guide)	2	29	x
509	0x01FD		x				Actual power	R	uint(16)	2	1	0x0000 - 0xFFFF (0 - 125%)	Actual power (for translation see programming guide)	2	30	x
520	0x0208		x				Count of OV alarms since power up	R	uint(16)	2	1	0x0000 - 0xFFFF		3	20	x
521	0x0209		x				Source mode: Count of OC alarms since power up	R	uint(16)	2	1	0x0000 - 0xFFFF		3	21	x
522	0x020A		x				Source mode: Count of OP alarms since power up	R	uint(16)	2	1	0x0000 - 0xFFFF		3	22	x
523	0x020B		x				Count of OT alarms since power up	R	uint(16)	2	1	0x0000 - 0xFFFF		3	23	x
524	0x020C		x				Count of PF alarms since power up	R	uint(16)	2	1	0x0000 - 0xFFFF		3	24	x
525	0x020D		x				Sink mode: Count of PF alarms since power up	R	uint(16)	2	1	0x0000 - 0xFFFF		3	25	x
526	0x020E		x				Sink mode: Count of OP alarms since power up	R	uint(16)	2	1	0x0000 - 0xFFFF		3	26	x
550	0x0226		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	0x0229		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	0x022C		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	0x0239		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	0x023A		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
577	0x0241		x		x		Condition of DC output after OT alarm	RW	uint(16)	2	1	Reg: Condition	0x0000 = off; 0x0001 = restore (default)	3	37	
650	0x028A	x		x			Master-slave: Link mode on MS bus	RW	uint(16)	2	1	Coil: Mode	0x0000 = Slave; 0xFF00 = Master	4	0	x
653	0x028D	x		x			Master-slave: Enable MS	RW	uint(16)	2	1	Coil: MS on/off	0x0000 = off; 0xFF00 = on	4	3	x
654	0x028E			x			Master-slave: Init MS	W	uint(16)	2	1	Coil: MS start init	0xFF00 = Start init	4	4	x
655	0x028F		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	0x0290		x				Master-slave: Total voltage in V	R	float	4	2	Floating point number IEEE754	500	4	6	x
658	0x0292		x				Master-slave: Total current in A	R	float	4	2	Floating point number IEEE754	300	4	7	x
660	0x0294		x				Master-slave: Total power in W	R	float	4	2	Floating point number IEEE754	150000	4	8	x
662	0x0296		x				Master-slave: Number of initialised slaves	R	uint(16)	2	1		1...35	4	9	x
9000	0x2328		x		x		Upper limit of voltage set value (U-max)	RW	uint(16)	2	1	0x0000 - 0xD0E5 (0 - 102%)	Voltage value (for translation see programming guide)	2	31	x
9001	0x2329		x		x		Lower limit of voltage set value (U-min)	RW	uint(16)	2	1	0x0000 - 0xD0E5 (0 - 102%)	Voltage value (for translation see programming guide)	2	32	x
9002	0x232A		x		x		Source mode: Upper limit of current set value (I-max)	RW	uint(16)	2	1	0x0000 - 0xD0E5 (0 - 102%)	Current value (for translation see programming guide)	2	33	x
9003	0x232B		x		x		Source mode: Lower limit of current set value (I-min)	RW	uint(16)	2	1	0x0000 - 0xD0E5 (0 - 102%)	Current value (for translation see programming guide)	2	34	x
9004	0x232C		x		x		Source mode: Upper limit of power set value (P-max)	RW	uint(16)	2	1	0x0000 - 0xD0E5 (0 - 102%)	Power value (for translation see programming guide)	2	35	x
9005	0x232D		x		x		Sink mode: Upper limit of power set value (P-max)	RW	uint(16)	2	1	0x0000 - 0xD0E5 (0 - 102%)	Power value (for translation see programming guide)	2	36	x
9008	0x2330		x		x		Sink mode: Upper limit of current set value (I-max)	RW	uint(16)	2	1	0x0000 - 0xD0E5 (0 - 102%)	Current value (for translation see programming guide)	2	40	x
9009	0x2331		x		x		Sink mode: Lower limit of current set value (I-min)	RW	uint(16)	2	1	0x0000 - 0xD0E5 (0 - 102%)	Current value (for translation see programming guide)	2	41	x
10007	0x2717	x		x			Ethernet: TCP keep-alive timeout	RW	uint(16)	2	1	Coil: Keep-alive on/off	0x0000 = off; 0xFF00 = on			
10008	0x2718	x		x			Ethernet/Profinet/Modbus TCP: DHCP	RW	uint(16)	2	1	Coil: DHCP on/off	0x0000 = off; 0xFF00 = on			
10010	0x271A	x		x			Protocol: Modbus	RW	uint(16)	2	1	Coil: MODBUS on/off	0x0000 = off; 0xFF00 = on			
10011	0x271B	x		x			Protocol: SCPI	RW	uint(16)	2	1	Coil: SCPI on/off	0x0000 = off; 0xFF00 = on			
10012	0x271C	x		x			Restart interface card	RW	uint(16)	2	1	Coil: Restart	0xFF00 = Trigger restart			
10013	0x271D	x		x			Modbus specification compliance	RW	uint(16)	2	1	Coil: Mode	0x0000 = Limited (default); 0xFF00 = Full			
10020	0x2724		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			
10021	0x2725		x				AnyBus module: Interface type	R	char	40	20	ASCII	"Profibus DPV1"			
10041	0x2739		x				AnyBus module: Version number	R	uint(8)	4	2					
10043	0x273B		x				AnyBus module: Serial number	R	uint(32)	4	2					
10251	0x280B		x		x		Profibus: Ident number	RW	uint(16)	2	1		0xA001	8	0	
10252	0x280C		x		x		Profibus/CanOpen: Slave address	RW	uint(16)	2	1		Profibus: 0-125 ; CANopen: 0-127	8	1	
10253	0x280D		x			x	Profibus/Profinet: User-defineable "Function tag"	RW	char	32	16	ASCII	"Test"	8	2	
10269	0x281D		x			x	Profibus/Profinet: User-defineable "Location tag"	RW	char	22	11	ASCII	"Test"	8	3	
10280	0x2828		x			x	Profibus/Profinet: User-defineable installation date	RW	char	40	20	ASCII	"13.01.2012 09:59:00"	8	4	
10300	0x283C		x			x	Profibus/Profinet: User-defineable description	RW	char	54	27	ASCII	"www.webpage.de"	8	5	
10354	0x2872		x			x	Profinet: User-defineable "Station name"	RW	char	200	100	ASCII	"Test"	8	6	
10502	0x2906		x			x	Ethernet/Modbus TCP: IP address	RW	uint(8)	4	2	Bytes 0-3: 0..255	192.168.0.2 (default)			
10504	0x2908		x			x	Ethernet/Modbus TCP: Subnet mask	RW	uint(8)	4	2	Bytes 0-3: 0..255	255.255.255.0 (default)			
10506	0x290A		x			x	Ethernet/Modbus TCP: Gateway	RW	uint(8)	4	2	Bytes 0-3: 0..255	192.168.0.1 (default)			
10508	0x290C		x			x	Ethernet/Profinet/Modbus TCP: Host name	RW	char	54	27	ASCII	"Client" (default)			
10535	0x2927		x			x	Ethernet/Profinet/Modbus TCP: Domain name	RW	char	54	27	ASCII	"Workgroup" (default)			
10562	0x2942		x			x	Ethernet/Modbus TCP: DNS 1	RW	uint(8)	4	2	Bytes 0-3: 0..255	0.0.0.0 (default)			
10564	0x2944		x			x	Ethernet/Modbus TCP: DNS 2	RW	uint(8)	4	2	Bytes 0-3: 0..255	0.0.0.0 (default)			
10566	0x2946		x		x		RS232/USB: Connection timeout in milliseconds	RW	uint(16)	2	1	5..65535	Default: 5ms			
10567	0x2947		x			(x)	Ethernet/Profinet/Modbus TCP: MAC	R	uint(8)	6	3	Bytes 0-5: 0..255	00:50:C2:C3:12:34 or 00-50-C2-C3-12-34			
10570	0x294A		x		x		Ethernet/Modbus TCP: Connection speed Port 1 (1 & 2 port modules)	RW	uint(16)	2	1	Connection speed	0x0000 = Auto; 0x0001 = 10Mbit half duplex; 0x0002 = 10Mbit full duplex; 0x0003 = 100Mbit half duplex; 0x0004 = 100Mbit full duplex			
10571	0x294B		x		x		Ethernet/Modbus TCP: Connection speed Port 2 (2 port module)	RW	uint(16)	2	1	Connection speed	0x0000 = Auto; 0x0001 = 10Mbit half duplex; 0x0002 = 10Mbit full duplex; 0x0003 = 100Mbit half duplex; 0x0004 = 100Mbit full duplex			
10572	0x294C		x		x		Ethernet/Modbus TCP: Port	RW	uint(16)	2	1	0..65535	5025 (default), except port 80			
10573	0x294D		x		x		Ethernet: TCP Socket timeout (in seconds)	RW	uint(16)	2	1	5..65535	0 = timeout inactive; 5 = 5 s (default)			
10700	0x29CC		x		x		RS232/CANopen/CAN: Baud rate	RW	uint(16)	2	1	Baud rate	CAN / CANopen / RS232 0x00: 10kbps / 10kbps / 2400 Bd 0x01: 20kbps / 20kbps / 4800 Bd 0x02: 50kbps / 50kbps / 9600 Bd 0x03: 100kbps / 100kbps / 19200 Bd 0x04: 125kbps / 125kbps / 38400 Bd 0x05: 250kbps / 250kbps / 57600 Bd 0x06: 500kbps / 500kbps / 115200 Bd 0x07: 1Mbps / 800kbps / - 0x08: - / 1Mbps / - 0x09: - / Autobaud / -			
10701	0x29CD	x		x			CAN: ID format	RW	uint(16)	2	1	Coil: Base/Extended	0x0000 = Base (11 Bit); 0xFF00 = Extended (29 Bit)			
10702	0x29CE	x		x			CAN: Termination	RW	uint(16)	2	1	Coil: Bus termination	0x0000 = off; 0xFF00 = on			
10704	0x29D0		x			x	CAN: Base ID	RW	uint(32)	4	2	0x0000...0x07FF or 0x0000...0x1FFFFFFF	Default: 0x000			
10706	0x29D2		x			x	CAN: Broadcast ID	RW	uint(32)	4	2	0x0000...0x07FF or 0x0000...0x1FFFFFFF	Default: 0x7FF			
10709	0x29D5	x		x			CAN: Data length	RW	uint(16)	2	1	Coil: Data length	0x0000 = Auto; 0xFF00 = Always 8 bytes			
10710	0x29D6		x			x	CAN: Cyclic read: Base ID	RW	uint(32)	4	2	0x0000...0x07FF or 0x0000...0x1FFFFFFF	Default: 0x100			
10712	0x29D8		x			x	CAN: Cyclic send: Base ID	RW	uint(32)	4	2	0x0000...0x07FF or 0x0000...0x1FFFFFFF	Default: 0x200			
10714	0x29DA		x		x		CAN: Cyclic read time (in ms): Status	RW	uint(16)	2	1	20...5000; 0 == off	Default: off			
10715	0x29DB		x		x		CAN: Cyclic read time (in ms): Set value (U, I, P)	RW	uint(16)	2	1	20...5000; 0 == off	Default: off			
10716	0x29DC		x		x		CAN: Cyclic read time (in ms): Limits 2 (P)	RW	uint(16)	2	1	20...5000; 0 == off	Default: off			
10717	0x29DD		x		x		CAN: Cyclic read time (in ms): Limits 1 (U, I)	RW	uint(16)	2	1	20...5000; 0 == off	Default: off			
10718	0x29DE		x		x		CAN: Cyclic read time (in ms): Actual values U, I, P	RW	uint(16)	2	1	20...5000; 0 == off	Default: off			
10721	0x29E1		x		x		CAN: Cyclic read time (in ms): Set value (I, P) (only PSB/PSBE 9000, sink mode)	RW	uint(16)	2	1	20...5000; 0 == off	Default: off			
10722	0x29E2		x		x		CAN: Cyclic read time (in ms): Limits (I, P) (only PSB/PSBE 9000, sink mode)	RW	uint(16)	2	1	20...5000; 0 == off	Default: off			