PSE 9000 / PSE 9000 WR register list for devices with KE firmware from V2.29 (check the installed version in your device's MENU in item ABOUT 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		43 = PSE 9000 Series	1	0	x
1	0x0001		x				Device type	R	char	40	20	ASCII	PSE 9080-170	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	170	1	8	x
125	0x007D		x				Nominal power	R	float	4	2	Floating point number IEEE754	3500	1	9	x
131	0x0083		x				Article no.	R	char	40	20	ASCII	06230700	1	12	x
151	0x0097		x				Serial no.	R	char	40	20	ASCII	100010002	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	V2.01 11.02.2016	1	15	x
211	0x00D3		x				Firmware version (HMI)	R	char	40	20	ASCII	V2.05 11.02.2016	1	16	x
231	0x00E7		x				Firmware version (DR)	R	char	40	20	ASCII	V1.0.18 02.10.2014	1	17	x
402	0x0192	x		x			Remote mode	RW	uint(16)	2	1	Coils : Remote	0x0000 = off; 0xFF00 = on	2	1	x
405	0x0195	x		x			DC output	RW	uint(16)	2	1	Coils : output	0x0000 = off; 0xFF00 = on	2	4	x
407	0x0197	x		x			Condition of DC output after power fail alarm	RW	uint(16)	2	1	Coils : Auto-On	0x0000 = off; 0xFF00 = auto-on	3	30	x
408	0x0198		x		x		Condition of DC output 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	Coils : Restart	0xFF00 = execute	2	8	x
411	0x019B			x			Acknowledge alarms	W	uint(16)	2	1	Coils : Alarms	0xFF00 = acknowledge	2	9	x
416	0x01A0	x		x			Analog interface: Reference voltage (pin VREF)	RW	uint(16)	2	1	Coils : VREF	0x0000 = 10V; 0xFF00 = 5V	2	14	x
417	0x01A1	x		x			Analog interface: REM-SB level	RW	uint(16)	2	1	Coils : REM-SB Level	0x0000 = normal; 0xFF00 = inverted	2	36	x
418	0x01A2	x		x			Analog interface: REM-SB action	RW	uint(16)	2	1	Coils : REM-SB Action	0x0000 = DC off; 0xFF00 = DC auto	2	37	x
432	0x01B0			x			Reset device to factory settings	W	uint(16)	2	1	Coils : Condition	0xFF00 = Trigger reset	2	43	x
440	0x01B8		x		x		Analog interface: Pin 14 configuration	RW	uint(16)	2	1	Reg: 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	Reg: 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	Reg: Status DC	0x0000 = CV; 0x0001 = DC output status	2	46	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		Set current value or irradiation (PV function)	RW	uint(16)	2	1	0x0000 - 0xD0E5 (0 - 102%)	Current value (for translation see programming guide) / Irradiation	2	24	x
502	0x01F6		x		x		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; 0x19 = CAN	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 13 : Function mode	0 = off; 1 = on			
												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 : 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			
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	Count	3	20	x
521	0x0209		x				Count of OC alarms since power up	R	uint(16)	2	1	0x0000 - 0xFFFF	Count	3	21	x
522	0x020A		x				Count of OP alarms since power up	R	uint(16)	2	1	0x0000 - 0xFFFF	Count	3	22	x
523	0x020B		x				Count of OT alarms since power up	R	uint(16)	2	1	0x0000 - 0xFFFF	Count	3	23	x
524	0x020C		x				Count of PF alarms since power up	R	uint(16)	2	1	0x0000 - 0xFFFF	Count	3	24	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		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		Overpower protection threshold (OPP)	RW	uint(16)	2	1	0x0000 - 0xE147 (0 - 110%)	OPP threshold (for translation see programming guide)	3	6	x
650	0x028A	x		x			Master-slave: Link mode on MS bus	RW	uint(16)	2	1	Coils : Mode	0x0000 = Slave; 0xFF00 = Master	4	0	x
653	0x028D	x		x			Master-slave: Enable MS	RW	uint(16)	2	1	Coils : MS on/off	0x0000 = off; 0xFF00 = on	4	3	x
654	0x028E			x			Master-slave: Init MS	W	uint(16)	2	1	Coils : 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; 0xFFFD = Different models detected, init not OK; 0xFFFF = init OK	4	5	x
656	0x0290		x				Master-slave: Total voltage in V	R	float	4	2	Floating point number IEEE754	80	4	6	x
658	0x0292		x				Master-slave: Total current in A	R	float	4	2	Floating point number IEEE754	1700	4	7	x
660	0x0294		x				Master-slave: Total power in kW	R	float	4	2	Floating point number IEEE754	50	4	8	x
662	0x0296		x				Master-slave: Number of initialised slaves	R	uint(16)	2	1		1…15	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		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		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		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
10007	0x2717	x		x			Ethernet: TCP keep-alive	RW	uint(16)	2	1	Coils: Keep-alive on/off	0x0000 = off; 0xFF00 = on			x
10008	0x2718	x		x			Ethernet/Profinet/Modbus TCP: DHCP	RW	uint(16)	2	1	Coils: DHCP on/off	0x0000 = off; 0xFF00 = on			x
10010	0x271A	x		x			Protocol: Modbus	RW	uint(16)	2	1	Coils: MODBUS on/off	0x0000 = off; 0xFF00 = on	2	47	
10011	0x271B	x		x			Protocol: SCPI	RW	uint(16)	2	1	Coils: SCPI on/off	0x0000 = off; 0xFF00 = on	2	48	
10012	0x271C			x			Restart interface card	W	uint(16)	2	1	Coil: Restart	0xFF00 = Trigger restart	2	49	
10020	0x2724		x				AnyBus module: Code number	R	uint(16)	2	1		0x00FF = no modul connected 0x0005 = Profibus 0x0009 = RS232 0x0010 = CANopen 0x0012 = Modbus-TCP 1P 0x0013 = Profinet 1P 0x0014 = Ethernet 1P 0x0015 = Ethernet 2P 0x0016 = Modbus-TCP 2P 0x0017 = Profinet 2P 0x0019 = CAN			x
10021	0x2725		x				AnyBus module: Interface type	R	char	40	20	ASCII	"Profibus DPV1"			x
10041	0x2739		x				AnyBus module: Version number	R	uint(8)	4	2		01020100 ==> 1.210			x
10043	0x273B		x				AnyBus module: Serial number	R(W)	uint(32)	4	2					x
10251	0x280B		x		x		Profibus: Ident number	RW	uint(16)	2	1		0xA001	8	0	
10252	0x280C		x		x		Profibus/CANopen: Device 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/Profinet/Modbus TCP: IP address	RW	uint(8)	4	2	Bytes 0-3: 0..255	192.168.0.2 (default)			
10504	0x2908		x			x	Ethernet/Profinet/Modbus TCP: Subnet mask	RW	uint(8)	4	2	Bytes 0-3: 0..255	255.255.255.0 (default)			
10506	0x290A		x			x	Ethernet/Profinet/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/Profinet/Modbus TCP: DNS 1	RW	uint(8)	4	2	5..65535	0.0.0.0 (default)			
10564	0x2944		x			x	Ethernet/Profinet/Modbus TCP: DNS 2	RW	uint(8)	4	2	ASCII	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				Ethernet/Profinet/Modbus TCP: MAC	R	uint(8)	6	3	ASCII	00:50:C2:C3:12:34 or 00-50-C2-C3-12-34			
10570	0x294A		x		x		Ethernet/Profinet/Modbus TCP: Connection speed Ethernet port 1	RW	uint(8)	2	1	SMTP Error	0x0000 = Auto; 0x0001 = 10Mbit half duplex; 0x0002 = 10Mbit full duplex; 0x0003 = 100Mbit half duplex; 0x0004 = 100Mbit full duplex			
10571	0x294B		x		x		Ethernet/Profinet/Modbus TCP: Connection speed Ethernet port 2	RW	uint(8)	2	1	SMTP test	0x0000 = Auto; 0x0001 = 10Mbit half duplex; 0x0002 = 10Mbit full duplex; 0x0003 = 100Mbit half duplex; 0x0004 = 100Mbit full duplex			
10572	0x294C		x		x		Ethernet/Profinet/Modbus TCP: Port	RW	uint(16)	2	1	0..65535	5025 (default), except port 80			
10573	0x294D		x		x		Ethernet: Connection timeout (in seconds)	RW	uint(16)	2	1	5..65535	Default: 5 s			
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	Coils: Base/Extended	0x0000 = Base (11 Bit); 0xFF00 = Extended (29 Bit)			
10702	0x29CE	x		x			CAN: Termination	RW	uint(16)	2	1	Coils: 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	Coils: Auto	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, R)	RW	uint(16)	2	1	20…5000; 0 == OFF	Default: OFF			
10716	0x29DC		x		x		CAN: Cyclic read time (in ms): Limits 2 (P, R)	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			