PSE 9000 / PSE 9000 WR register list for devices with KE firmware from V2.27 (check the installed version in your device's MENU in item ABOUT 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
0		x				Device class	R	uint(16)	2	1		43 = PSE 9000 Series	1	0
1		x				Device type	R	char	40	20	ASCII	PSE 9080-170	1	1
21		x				Manufacturer	R	char	40	20	ASCII		1	2
41		x				Manufacturer address	R	char	40	20	ASCII		1	3
61		x				Manufacturer ZIP code	R	char	40	20	ASCII		1	4
81		x				Manufacturer phone number	R	char	40	20	ASCII		1	5
101		x				Manufacturer website	R	char	40	20	ASCII		1	6
121		x				Nominal voltage	R	float	4	2	Floating point number IEEE754	80	1	7
123		x				Nominal current	R	float	4	2	Floating point number IEEE754	170	1	8
125		x				Nominal power	R	float	4	2	Floating point number IEEE754	3500	1	9
131		x				Article no.	R	char	40	20	ASCII	06230700	1	12
151		x				Serial no.	R	char	40	20	ASCII	100010002	1	13
171		x			x	User text	RW	char	40	20	ASCII		1	14
191		x				Firmware version (KE)	R	char	40	20	ASCII	V2.01 11.02.2016	1	15
211		x				Firmware version (HMI)	R	char	40	20	ASCII	V2.05 11.02.2016	1	16
231		x				Firmware version (DR)	R	char	40	20	ASCII	V1.0.18 02.10.2014	1	17
402	x		x			Remote mode	RW	uint(16)	2	1	Coils : Remote	0x0000 = off; 0xFF00 = on	2	1
405	x		x			DC output	RW	uint(16)	2	1	Coils : output	0x0000 = off; 0xFF00 = on	2	4
407	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
408		x		x		Condition of DC output after powering the device	RW	uint(16)	2	1	Reg : Power-On	0xFFFF = off; 0xFFFE = restore	2	6
410			x			Restart of the device (warm start)	W	uint(16)	2	1	Coils : Restart	0xFF00 = execute	2	8
411			x			Acknowledge alarms	W	uint(16)	2	1	Coils : Alarms	0xFF00 = acknowledge	2	9
416	x		x			Analog interface: Reference voltage (pin VREF)	RW	uint(16)	2	1	Coils : VREF	0x0000 = 10V; 0xFF00 = 5V	2	14
417	x		x			Analog interface: REM-SB level	RW	uint(16)	2	1	Coils : REM-SB Level	0x0000 = normal; 0xFF00 = inverted	2	36
418	x		x			Analog interface: REM-SB action	RW	uint(16)	2	1	Coils : REM-SB Action	0x0000 = DC off; 0xFF00 = DC auto	2	37
432			x			Reset device to factory settings	W	uint(16)	2	1	Coils : Condition	0xFF00 = Trigger reset	2	43
440		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
441		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
442		x		x		Analog interface: Pin 15 configuration	RW	uint(16)	2	1	Reg: Status DC	0x0000 = CV; 0x0001 = DC output status	2	46
500		x		x		Set voltage value	RW	uint(16)	2	1	0x0000 - 0xD0E5 (0 - 102%)	Voltage value (for translation see programming guide)	2	23
501		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
502		x		x		Set power value	RW	uint(16)	2	1	0x0000 - 0xD0E5 (0 - 102%)	Power value (for translation see programming guide)	2	25
505		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
											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		x				Actual voltage	R	uint(16)	2	1	0x0000 - 0xFFFF (0 - 125%)	Actual voltage (for translation see programming guide)	2	28
508		x				Actual current	R	uint(16)	2	1	0x0000 - 0xFFFF (0 - 125%)	Actual current (for translation see programming guide)	2	29
509		x				Actual power	R	uint(16)	2	1	0x0000 - 0xFFFF (0 - 125%)	Actual power (for translation see programming guide)	2	30
520		x				Count of OV alarms since power up	R	uint(16)	2	1	0x0000 - 0xFFFF	Count	3	20
521		x				Count of OC alarms since power up	R	uint(16)	2	1	0x0000 - 0xFFFF	Count	3	21
522		x				Count of OP alarms since power up	R	uint(16)	2	1	0x0000 - 0xFFFF	Count	3	22
523		x				Count of OT alarms since power up	R	uint(16)	2	1	0x0000 - 0xFFFF	Count	3	23
524		x				Count of PF alarms since power up	R	uint(16)	2	1	0x0000 - 0xFFFF	Count	3	24
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
553		x		x		Overcurrent protection threshold (OCP)	RW	uint(16)	2	1	0x0000 - 0xE147 (0 - 110%)	OCP threshold (for translation see programming guide)	3	3
556		x		x		Overpower protection threshold (OPP)	RW	uint(16)	2	1	0x0000 - 0xE147 (0 - 110%)	OPP threshold (for translation see programming guide)	3	6
650	x		x			Master-slave: Link mode on MS bus	RW	uint(16)	2	1	Coils : Mode	0x0000 = Slave; 0xFF00 = Master	4	0
653	x		x			Master-slave: Enable MS	RW	uint(16)	2	1	Coils : MS on/off	0x0000 = off; 0xFF00 = on	4	3
654			x			Master-slave: Init MS	W	uint(16)	2	1	Coils : MS start init	0xFF00 = Start init	4	4
655		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
656		x				Master-slave: Total voltage in V	R	float	4	2	Floating point number IEEE754	80	4	6
658		x				Master-slave: Total current in A	R	float	4	2	Floating point number IEEE754	1700	4	7
660		x				Master-slave: Total power in kW	R	float	4	2	Floating point number IEEE754	50	4	8
662		x				Master-slave: Number of initialised slaves	R	uint(16)	2	1		1...15	4	9
9000		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
9001		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
9002		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
9003		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
9004		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
10007	x		x			Ethernet: TCP keep-alive	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		
10012			x			Warm start interface card	W	uint(16)	2	1	Coils: Warm start	0xFF00 = Trigger warm start		
10020		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		
10021		x				AnyBus module: Interface type	R	char	40	20	ASCII	"Profibus DPV1"		
10041		x				AnyBus module: Version number	R	uint(8)	4	2		01020100 ==> 1.210		
10043		x				AnyBus module: Serial number	R(W)	uint(32)	4	2				
10251		x		x		Profibus: Ident number	RW	uint(16)	2	1		0xA001		
10252		x		x		Profibus/CANopen: Device address	RW	uint(16)	2	1		Profibus: 0-125; CANopen: 0-127		
10253		x			x	Profibus/Profinet: User-defineable "Function tag"	RW	char	32	16	ASCII	"Test"		
10269		x			x	Profibus/Profinet: User-defineable "Location tag"	RW	char	22	11	ASCII	"Test"		
10280		x			x	Profibus/Profinet: User-defineable installation date	RW	char	40	20	ASCII	"13.01.2012 09:59:00"		
10300		x			x	Profibus/Profinet: User-defineable description	RW	char	54	27	ASCII	"www.webpage.de"		
10354		x			x	Profinet: User-defineable "Station name"	RW	char	200	100	ASCII	"Test"		
10502		x			x	Ethernet/Profinet/Modbus TCP: IP address	RW	uint(8)	4	2	Bytes 0-3: 0..255	192.168.0.2 (default)		
10504		x			x	Ethernet/Profinet/Modbus TCP: Subnet mask	RW	uint(8)	4	2	Bytes 0-3: 0..255	255.255.255.0 (default)		
10506		x			x	Ethernet/Profinet/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/Profinet/Modbus TCP: DNS 1	RW	uint(8)	4	2	5..65535	0.0.0.0 (default)		
10564		x			x	Ethernet/Profinet/Modbus TCP: DNS 2	RW	uint(8)	4	2	ASCII	0.0.0.0 (default)		
10566		x		x		RS232/USB: Connection timeout in milliseconds	RW	uint(16)	2	1	5..65535	Default: 5ms		
10567		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		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		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		x		x		Ethernet/Profinet/Modbus TCP: Port	RW	uint(16)	2	1	0..65535	5025 (default), except port 80		
10573		x		x		Ethernet: Connection timeout (in seconds)	RW	uint(16)	2	1	5..65535	Default: 5 s		
10700		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	x		x			CAN: ID format	RW	uint(16)	2	1	Coils: Base/Extended	0x0000 = Base (11 Bit); 0xFF00 = Extended (29 Bit)		
10702	x		x			CAN: Termination	RW	uint(16)	2	1	Coils: Bus termination	0x0000 = off; 0xFF00 = on		
10704		x			x	CAN: Base ID	RW	uint(32)	4	2	0x0000...0x07FF or 0x0000...0x1FFFFFFF	Default: 0x000		
10706		x			x	CAN: Broadcast ID	RW	uint(32)	4	2	0x0000...0x07FF or 0x0000...0x1FFFFFFF	Default: 0x7FF		
10709	x		x			CAN: Data length	RW	uint(16)	2	1	Coils: Auto	0x0000 = Auto; 0xFF00 = Always 8 bytes		
10710		x			x	CAN: Cyclic read: Base ID	RW	uint(32)	4	2	0x0000...0x07FF or 0x0000...0x1FFFFFFF	Default: 0x100		
10712		x			x	CAN: Cyclic send: Base ID	RW	uint(32)	4	2	0x0000...0x07FF or 0x0000...0x1FFFFFFF	Default: 0x200		
10714		x		x		CAN: Cyclic read time (in ms): Status	RW	uint(16)	2	1	20...5000; 0 == OFF	Default: OFF		
10715		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		x		x		CAN: Cyclic read time (in ms): Limits 2 (P, R)	RW	uint(16)	2	1	20...5000; 0 == OFF	Default: OFF		
10717		x		x		CAN: Cyclic read time (in ms): Limits 1 (U, I)	RW	uint(16)	2	1	20...5000; 0 == OFF	Default: OFF		
10718		x		x		CAN: Cyclic read time (in ms): Actual values U, I, P	RW	uint(16)	2	1	20...5000; 0 == OFF	Default: OFF		