PSE 9000 register list for devices with KE firmware from V2.02 (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	Access condition for writing	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	REM	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	REM	uint(16)	2	1	Coils : output	0x0000 = off; 0xFF00 = on	2	4
407	x		x			Condition of DC output after power fail alarm	RW	REM	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	REM	uint(16)	2	1	Reg : Power-On	0xFFFF = off; 0xFFFE = restore	2	6
410			x			Restart of the device (warm start)	W	REM	uint(16)	2	1	Coils : Restart	0xFF00 = execute	2	8
411			x			Acknowledge alarms	W	REM	uint(16)	2	1	Coils : Alarms	0xFF00 = acknowledge	2	9
416	x		x			Analog interface: Reference voltage (pin VREF)	RW	REM	uint(16)	2	1	Coils : VREF	0x0000 = 10V; 0xFF00 = 5V	2	14
417	x		x			Analog interface: REM-SB level	RW	REM	uint(16)	2	1	Coils : REM-SB Level	0x0000 = normal; 0xFF00 = inverted	2	36
418			x			Analog interface: REM-SB action	W	REM	uint(16)	2	1	Coils : REM-SB Action	0x0000 = DC off; 0xFF00 = DC auto	2	37
500		x		x		Set voltage value	RW	REM	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	REM	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	REM	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 5 : -			
												Bit 6 : Master-slave type	0 = Slave; 1 = Master		
												Bit 7 : Output state	0 = off; 1 = on		
												Bit 8 : -			
												Bit 9-10: Regulation mode	00 = CV; 01 = CR; 10 = CC; 11 = CP		
												Bit 12-11 : -			
												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 20 : OTpre	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 24 : UVD	0 = none; 1 = active		
												Bit 25 : OVD	0 = none; 1 = active		
												Bit 26 : UCD	0 = none; 1 = active		
												Bit 27 : OCD	0 = none; 1 = active		
												Bit 28 : OPD	0 = none; 1 = active		
												Bit 29 : MSS	0 = OK; 1 = Master-slave in secure mode		
												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	REM	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	REM	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	REM	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	REM	uint(16)	2	1	Coils : Mode	0x0000 = Slave; 0xFF00 = Master	4	0
651		x		x		Master-slave: Address	RW	REM	uint(16)	2	1	Reg : Address	0x0001…0x000F	4	1
653	x		x			Master-slave: Enable MS	RW	REM	uint(16)	2	1	Coils : MS on/off	0x0000 = off; 0xFF00 = on	4	3
654			x			Master-slave: Init MS	W	REM	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	REM	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	REM	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	REM	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	REM	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	REM	uint(16)	2	1	0x0000 - 0xD0E5 (0 - 102%)	Power value (for translation see programming guide)	2	35
10007	x		x			Ethernet: Enable TCP keep-alive timeout	RW	REM	uint(16)	2	1	Coils: Keep-alive on/off	0x0000 = off; 0xFF00 = on		
10008	x		x			Ethernet/Profinet/Modbus TCP: DHCP	RW	REM	uint(16)	2	1	Coils: DHCP on/off	0x0000 = off; 0xFF00 = on		
10010	x		x			Protocol: Modbus	RW	REM	uint(16)	2	1	Coils: MODBUS on/off	0x0000 = off; 0xFF00 = on		
10011	x		x			Protocol: SCPI	RW	REM	uint(16)	2	1	Coils: SCPI on/off	0x0000 = off; 0xFF00 = on		
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	8	0
10252		x		x		Profibus/CANopen: Device address	RW		uint(16)	2	1		Profibus: 0-125; CANopen: 0-127	8	1
10253		x			x	Profibus/Profinet: User-defineable "Function tag"	RW	REM	char	32	16	ASCII	"Test"	8	2
10269		x			x	Profibus/Profinet: User-defineable "Location tag"	RW	REM	char	22	11	ASCII	"Test"	8	3
10280		x			x	Profibus/Profinet: User-defineable installation date	RW	REM	char	40	20	ASCII	"13.01.2012 09:59:00"	8	4
10300		x			x	Profibus/Profinet: User-defineable description	RW	REM	char	54	27	ASCII	"www.webpage.de"	8	5
10354		x			x	Profinet: User-defineable "Station name"	RW	REM	char	200	100	ASCII	"Test"	8	6
10502		x			x	Ethernet/Profinet/Modbus TCP: IP address	RW	REM	uint(8)	4	2	Bytes 0-3: 0..255	192.168.0.2 (default)		
10504		x			x	Ethernet/Profinet/Modbus TCP: Subnet mask	RW	REM	uint(8)	4	2	Bytes 0-3: 0..255	255.255.255.0 (default)		
10506		x			x	Ethernet/Profinet/Modbus TCP: Gateway	RW	REM	uint(8)	4	2	Bytes 0-3: 0..255	192.168.0.1 (default)		
10508		x			x	Ethernet/Profinet/Modbus TCP: Host name	RW	REM	char	54	27	ASCII	"Client" (default)		
10535		x			x	Ethernet/Profinet/Modbus TCP: Domain name	RW	REM	char	54	27	ASCII	"Workgroup" (default)		
10562		x			x	Ethernet/Profinet/Modbus TCP: DNS 1	RW	REM	uint(8)	4	2	5..65535	0.0.0.0 (default)		
10564		x			x	Ethernet/Profinet/Modbus TCP: DNS 2	RW	REM	uint(8)	4	2	ASCII	0.0.0.0 (default)		
10566		x		x		RS232/USB: Connection timeout in milliseconds	RW	REM	uint(16)	2	1	5..65535	Default: 5ms		
10567		x				Ethernet/Profinet/Modbus TCP: MAC	R	REM	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	REM	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	REM	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	REM	uint(16)	2	1	0..65535	5025 (default), except port 80		
10573		x		x		Ethernet: Connection timeout (in seconds)	RW	REM	uint(16)	2	1	5..65535	Default: 5 s		
10700		x		x		RS232/CANopen/CAN: Baud rate	RW	REM	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	REM	uint(16)	2	1	Coils: Base/Extended			
10702	x		x			CAN: Termination	RW	REM	uint(16)	2	1	Coils: Bus termination			
10704		x			x	CAN: Base ID	RW	REM	uint(32)	4	2	0x0000…0x07FF or 0x0000…0x1FFFFFFF			
10706		x			x	CAN: Broadcast ID	RW	REM	uint(32)	4	2	0x0000…0x07FF or 0x0000…0x1FFFFFFF			
10709	x		x			CAN: Data length	RW	REM	uint(16)	2	1	Coils: Auto			
10710		x			x	CAN: Cyclic read: Base ID	RW	REM	uint(32)	4	2	0x0000…0x07FF or 0x0000…0x1FFFFFFF			
10712		x			x	CAN: Cyclic send: Base ID	RW	REM	uint(32)	4	2	0x0000…0x07FF or 0x0000…0x1FFFFFFF			
10714		x		x		CAN: Cyclic read time (in ms): Status	RW	REM	uint(16)	2	1	20…5000; 0 == OFF			
10715		x		x		CAN: Cyclic read time (in ms): Set value (U, I, P, R)	RW	REM	uint(16)	2	1	20…5000; 0 == OFF			
10716		x		x		CAN: Cyclic read time (in ms): Limits 2 (P, R)	RW	REM	uint(16)	2	1	20…5000; 0 == OFF			
10717		x		x		CAN: Cyclic read time (in ms): Limits 1 (U, I)	RW	REM	uint(16)	2	1	20…5000; 0 == OFF			
10718		x		x		CAN: Cyclic read time (in ms): Actual values U, I, P	RW	REM	uint(16)	2	1	20…5000; 0 == OFF			