PS 3000 C 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	Write single coil (0x05)	Write single register (0x06)	Write multiple registers	Description	Access	Data type	Data length in bytes	Number of registers	Data	Example
0		x		x		Device class	R	uint(16)	2	1		57 = PS 3000 C Series
1		x			x	Device type	R	char	40	20	ASCII	PS 3080-05 C
21		x			x	Manufacturer	R	char	40	20	ASCII	
41		x			x	Manufacturer address	R	char	40	20	ASCII	
61		x			x	Manufacturer ZIP code	R	char	40	20	ASCII	
81		x			x	Manufacterer phone number	R	char	40	20	ASCII	
101		x			x	Manufacturer website	R	char	40	20	ASCII	
121		x			x	Nominal voltage	R	float	4	2	Floating point number IEEE754	80
123		x			x	Nominal current	R	float	4	2	Floating point number IEEE754	5
125		x			x	Nominal power	R	float	4	2	Floating point number IEEE754	160
131		x			x	Article no.	R	char	40	20	ASCII	35320209
151		x			x	Serial no.	R	char	40	20	ASCII	1234567890
171		x			x	User text	RW	char	40	20	ASCII	
191		x			x	Firmware version (KE)	R	char	40	20	ASCII	V2.02
211		x			x	Firmware version (HMI)	R	char	40	20	ASCII	V2.02
231		x			x	Firmware version (DR)	R	char	40	20	ASCII	V2.0.1
402	x		x			Remote mode	RW	uint(16)	2	1	Coils : Remote	0x0000 = off; 0xFF00 = on
405	x		x			DC output	RW	uint(16)	2	1	Coils : Converter	0x0000 = off; 0xFF00 = active
407	x		x			Condition of DC output after power fail alarm	RW	uint(16)	2	1	Coils : Auto-On	0x0000 = off; 0xFF00 = auto-on
408		x		x		Condition of DC output after powering the device	RW	uint(16)	2	1	Coils : Power-On	0xFFFF = off; 0xFFFE = Restore
410	x		x			Restart of the device (warm start)	W	uint(16)	2	1	Coils : Restart	0xFF00 = execute
411	x		x			Acknowledge alarms	W	uint(16)	2	1	Coils : Alarms	0xFF00 = acknowledge
416	x		x			Analog interface: Reference voltage (pin VREF)	RW	uint(16)	2	1	Coils : VREF	0x0000 = 10V; 0xFF00 = 5V
417	x		x			Analog interface: REM-SB level	RW	uint(16)	2	1	Coils : REM-SB Level	0x0000 = normal; 0xFF00 = inverted
418	x		x			Analog interface: REM-SB action	RW	uint(16)	2	1	Coils : REM-SB Action	0x0000 = DC off; 0xFF00 = DC auto
425	x		x			DC output after leaving remote	RW	uint(16)	2	1	Coils : Condition	0x0000 = off (default); 0xFF00 = unchanged
500		x		x		Set voltage value	RW	uint(16)	2	1	0x0000 - 0xD0E5 (0 - 102%)	Voltage value (for translation see programming guide)
501		x		x		Set current value	RW	uint(16)	2	1	0x0000 - 0xD0E5 (0 - 102%)	Current value (for translation see programming guide)
502		x		x		Set power value	RW	uint(16)	2	1	0x0000 - 0xD0E5 (0 - 102%)	Power value (for translation see programming guide)
505		x				Device state	R	uint(32)	4	2	Bit 0- 4: Control location	0x00 = frei; 0x01 = lokal; 0x02 = fern; 0x03 = USB; 0x04 = analog; 0x06 = Ethernet
											Bit 7 : DC output	0 = off; 1 = on
											Bit 9-10 : Regulation mode	00 = CV; 01 = CR; 10 = CC; 11 = CP
											Bit 11 : Remote control	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	0 = none; 1 = active
											Bit 30 : REM-SB	0 = DC enabled; 1 = REM-SB disables DC output/input
507		x		x		Actual voltage	R	uint(16)	2	1	0x0000 - 0xFFFF (0 - 125%)	Actual voltage (for translation see programming guide)
508		x		x		Actual current	R	uint(16)	2	1	0x0000 - 0xFFFF (0 - 125%)	Actual current (for translation see programming guide)
509		x				Actual power	R	uint(16)	2	1	0x0000 - 0xFFFF (0 - 125%)	Actual power (for translation see programming guide)
520		x				Count of OV alarms since power up	R	uint(16)	2	1	0x0000 - 0xFFFF	Count
521		x				Count of OC alarms since power up	R	uint(16)	2	1	0x0000 - 0xFFFF	Count
522		x				Count of OP alarms since power up	R	uint(16)	2	1	0x0000 - 0xFFFF	Count
523		x				Count of OT alarms since power up	R	uint(16)	2	1	0x0000 - 0xFFFF	Count
524		x				Count of PF alarms since power up	R	uint(16)	2	1	0x0000 - 0xFFFF	Count
550		x		x		Overvoltage protection threshold (OVP)	RW	uint(16)	2	1	0x0000 - 0xE147 (0 - 110%)	OVP threshold (for translation see programming guide)
553		x		x		Overcurrent protection threshold (OCP)	RW	uint(16)	2	1	0x0000 - 0xE147 (0 - 110%)	OCP threshold (for translation see programming guide)
556		x		x		Overpower protection threshold (OPP)	RW	uint(16)	2	1	0x0000 - 0xE147 (0 - 110%)	OPP threshold (for translation see programming guide)
850	x		x			Function generator: Start/stop	RW	uint(16)	2	1	Coils : Start/Stop	0x0000 = stop; 0xFF00 = run
851	x		x			Function generator: Select U	RW	uint(16)	2	1	Coils : Select U	0x0000 = off; 0xFF00 = activate FG for voltage
852	x		x			Function generator: Select I	RW	uint(16)	2	1	Coils : Select I	0x0000 = off; 0xFF00 = activate FG for current
854	x		x			Function generator: Submit new function data during run	RW	uint(16)	2	1	Coils : Submit	0x0000 = do nothing; 0xFF00 = Submit for next run
900		x		x		Function generator: Static level 1	RW	uint(16)	2	1	0x0000 - 0xCCCC (0 - 100%)	0x6666 = 50%
901		x		x		Function generator: static level 2	RW	uint(16)	2	1	0x0000 - 0xCCCC (0 - 100%)	0x6666 = 50%
902		x			x	Function generator: t1 (rise time P1->P2)	RW	float	4	2	Floating point number IEEE754 format Value: 3µs-6.000.000.000µs Resolution: 3µs	3000 = 3000µs Rule: (t1 + t2 + t3 + t4) <= 100 min.
904		x			x	Function generator: t2 (hold time level 2)	RW	float	4	2	Floating point number IEEE754 format Value: 3µs-6.000.000.000µs Resolution: 3µs	3000 = 3000µs Rule: (t1 + t2 + t3 + t4) <= 100 min.
906		x			x	Function generator: t3 (fall time P2->P1)	RW	float	4	2	Floating point number IEEE754 format Value: 3µs-6.000.000.000µs Resolution: 3µs	3000 = 3000µs Rule: (t1 + t2 + t3 + t4) <= 100 min.
908		x			x	Function generator: t4 (hold time level 1)	RW	float	4	2	Floating point number IEEE754 format Value: 3µs-6.000.000.000µs Resolution: 3µs	3000 = 3000µs Rule: (t1 + t2 + t3 + t4) <= 100 min.
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)
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)
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)
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)
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)
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: 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
10017		x				Ethernet: DHCP status	R	uint(16)	2	1	Bit0: DHCP running	0 = manual; 1 = DHCP
10502		x			x	Ethernet: IP address	RW	uint(8)	4	2	Bytes 0 - 3: 0..255	192.168.0.2 (default)
10504		x			x	Ethernet: Subnet mask	RW	uint(8)	4	2	Bytes 0 - 3: 0..255	255.255.255.0 (Standard)
10506		x			x	Ethernet: Gateway	RW	uint(8)	4	2	Bytes 0 - 3: 0..255	192.168.0.1 (default)
10508		x			x	Ethernet: Host name	RW	char	54	27	ASCII	"Client" (default)
10535		x			x	Ethernet: Domain name	RW	char	54	27	ASCII	"Workgroup" (default)
10562		x			x	Ethernet: DNS	RW	uint(8)	4	2	Bytes 0 - 3: 0..255	0.0.0.0 (default)
10566		x		x		USB: Connection timeout (in milliseconds)	RW	uint(16)	2	1	5..65535	Default: 5 ms
10567		x				Ethernet: MAC	RW	uint(8)	6	3	Bytes 0 - 5: 0..255	00:50:C2:C3:12:34 or 00-50-C2-C3-12-34
10572		x		x		Ethernet: Port	RW	uint(16)	2	1	0..65536 (except 80)	5025 (default)
10573		x		x		Ethernet: TCP Socket timeout (in seconds)	RW	uint(16)	2	1	5..65535	Default: 5 s