PSI 9000 SLAVE / ELR 9000 HP SLAVE / EL 9000 B 2Q front USB port register list for devices with HMI firmware from V2.01 (check the installed version by reading register 211)												
	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
0		х				Device class	R	uint(16)	2	1		52 = Front HMI for Slave series
21		x				Device type  Manufacturer	R R	char	40 40		ASCII ASCII	PSI 9080-510
41		X				Manufacturer address	R	char	40		ASCII	
61		х				Manufacturer ZIP code	R	char	40	20	ASCII	
81 101		X				Manufacturer phone number  Manufacturer website	R	char	40 40		ASCII ASCII	
121		X					R	float	40		Floating point number IEEE754	80
123		х				Nominal current	R	float	4	2	Floating point number IEEE754	510
125 127		x					R R	float	4		Floating point number IEEE754 Floating point number IEEE754	15000 30
131		X				Article no.	R	char	40		ASCII	06290364
151		х				Serial no.	R	char	40	20	ASCII	100000001
171 191	_[	x			х	User text Firmware version (KE)	RW	char	40		ASCII	V2.17
191 211	+	x		-		, , , , , , , , , , , , , , , , , , ,	R R	char char	40		ASCII ASCII	V2.17 V2.01
231		x				Firmware version (DR)	R	char	40	_	ASCII	V1.6.4
400	<del>, ,</del>		x	_		Pomoto modo	D\A/	uint/40		_	Coile : Pomete	0x0000 = off; 0xFF00 = on
	x x		X	-		Remote mode DC output / DC input	RW RW	uint(16) uint(16)	2	1	Coils : Remote  Coils : Output / input	0x0000 = off; 0xFF00 = on 0x0000 = off; 0xFF00 = on
407	х		Х			Condition of DC output / DC input after power fail alarm	RW	uint(16)	2	1	Coils : Output / input	0x0000 = off; 0xFF00 = auto
408	Ţ	х	Ļ	Х		Condition of DC output / DC input after powering the device	RW	uint(16)	2	1	Reg : Power-On	0xFFFF = off; 0xFFFE = restore
409 411	х	H	X	1		Operation mode (UIP/UIR) Acknowledge alarms	RW W	uint(16) uint(16)	2		Coils : Operation mode  Coils : Alarms	0x0000 = UIP; 0xFF00 = UIR 0xFF00 = acknowledge
500		х		х		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 or irradiation (PV function)	RW	uint(16)	2	1	0x0000 - 0xD0E5 (0 - 102%)	Current value (for translation see programming guide) / Irradiation
502 503		X		X		Set power value Set resistance value	RW RW	uint(16) uint(16)	2	1	0x0000 - 0xD0E5 (0 - 102%) 0x0000 - 0xCCCC (0 - 100%)	Power value (for translation see programming guide)  Resistance value (for translation see programming guide)
505		х				Device state	R	uint(32)	4	2	Bit 0-4: Control location	0x00 = free; 0x03 = USB
											Bit 5 :- Bit 6 : Master-slave type	0 = elever 1 = meeter
											Bit 7 : Output / input state	0 = slave; 1 = master 0 = off; 1 = on
											Bit 8 :-	
											Bit 9-10 : Regulation mode Bit 12-11 : -	00 = CV; 01 = CR; 10 = CC; 11 = CP
											Bit 13 : Function mode	0 = off; 1 = on
											Bit 14 : External sense	0 = off; 1 = on
											Bit 15 : Alarms Bit 16 : OVP	0 = none; 1 = active 0 = none; 1 = active
											Bit 17 : OCP	0 = none; 1 = active
											Bit 18 : OPP	0 = none; 1 = active
											Bit 19 : OT Bit 20 : -	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 Bit 24 : UVD	0 = none; 1 = active 0 = none; 1 = active
											Bit 25 : OVD	0 = none; 1 = active
											Bit 26 : UCD	0 = none; 1 = active
											Bit 27 : OCD Bit 28 : OPD	0 = none; 1 = active 0 = none; 1 = active
											Bit 29 : MSS	0 = OK; 1 = Master-slave in secure mode
507 508		x		-	<u> </u>	Actual voltage Actual current	R R	uint(16) uint(16)	2	1	0x0000 - 0xFFFF (0 - 125%) 0x0000 - 0xFFFF (0 - 125%)	Actual voltage (for translation see programming guide)  Actual current (for translation see programming guide)
508		x		H	t		R	uint(16)	2		0x0000 - 0xFFFF (0 - 125%)	Actual current (for translation see programming guide)  Actual power (for translation see programming guide)
											In annua a 5	
520 521		x	_	-	<del>                                     </del>		R R	uint(16) uint(16)	2	1	0x0000 - 0xFFFF 0x0000 - 0xFFFF	Count Count
522		X			L	Count of OP alarms since power up	R	uint(16)	2	1	0x0000 - 0xFFFF	Count
523	_]	х		L	$\vdash$		R	uint(16)	2	_	0x0000 - 0xFFFF	Count
524		Х		<u> </u>		Count of PF alarms since power up	R	uint(16)	2	1	0x0000 - 0xFFFF	Count
550		х		Х			RW	uint(16)	2		0x0000 - 0xE147 (0 - 110%)	OVP threshold (for translation see programming guide)
553	_[	х		Х	$\vdash$	Overcurrent protection threshold (OCP)	RW	uint(16)	2		0x0000 - 0xE147 (0 - 110%)	OCP threshold (for translation see programming guide)
556 559	-	x		X	1	Overpower protection threshold (OPP) Undervoltage detection (UVD)	RW RW	uint(16) uint(16)	2	_	0x0000 - 0xE147 (0 - 110%) 0x0000 - 0xD0E5 (0 - 102%)	OPP threshold (for translation see programming guide) UVD threshold (for translation see programming guide)
560		х		Х		Adjustable UVD notification	RW	uint(16)	2		Adjustable UVD notification	0x0000 = nothing; 0x0001 = signal; 0x0002 = warning; 0x0003 = alarm
561	_[	x		X		Overvoltage detection (OVD) Adjustable OVD notification	RW RW	uint(16)	2	1	0x0000 - 0xD0E5 (0 - 102%)	OVD threshold (for translation see programming guide)
562 563		x		x		Undercurrent detection (UCD)	RW	uint(16) uint(16)	2		Adjustable OVD notification 0x0000 - 0xD0E5 (0 - 102%)	0x0000 = nothing; 0x0001 = signal; 0x0002 = warning; 0x0003 = alarm  UCD threshold (for translation see programming guide)
564		х		х		Adjustable UCD notification	RW	uint(16)	2	_	Adjustable UCD notification	0x0000 = nothing; 0x0001 = signal; 0x0002 = warning; 0x0003 = alarm
565 566		x		x	$\vdash$	Overcurrent detection (OCD) Adjustable OCD notification	RW RW	uint(16) uint(16)	2	1	0x0000 - 0xD0E5 (0 - 102%) Adjustable OCD notification	OCD threshold (for translation see programming guide)  0x0000 = nothing; 0x0001 = signal; 0x0002 = warning; 0x0003 = alarm
567		x		X		Overpower detection (OPD)	RW	uint(16)	2		0x0000 - 0xD0E5 (0 - 102%)	OPD threshold (for translation see programming guide)
568		х		Х		Adjustable OPD notification	RW	uint(16)	2	1	Adjustable OPD notification	0x0000 = nothing; 0x0001 = signal; 0x0002 = warning; 0x0003 = alarm
9000		х		1	1	Upper limit of voltage set value (U-max)	R	uint(16)	2	1	0x0000 - 0xD0E5 (0 - 102%)	Voltage value (for translation see programming guide)
9000		x		H	H	Lower limit of voltage set value (U-min)	R	uint(16)	2	1	0x0000 - 0xD0E5 (0 - 102%)	Voltage value (for translation see programming guide)  Voltage value (for translation see programming guide)
9002		Х				Upper limit of current set value (I-max)	R	uint(16)	2	1	0x0000 - 0xD0E5 (0 - 102%)	Current value (for translation see programming guide)
9003 9004		x			-	Lower limit of current set value (I-min) Upper limit of power set value (P-max)	R R	uint(16) uint(16)	2	1	0x0000 - 0xD0E5 (0 - 102%) 0x0000 - 0xD0E5 (0 - 102%)	Current value (for translation see programming guide)  Power value (for translation see programming guide)
9006		x	E	L	L	Upper limit of resistance set value (R-max)	R	uint(16)	2	1	0x0000 - 0xD0E5 (0 - 102%)	Resistance value (for translation see programming guide)
10566		х				USB: Connection timeout in milliseconds	R	uint(16)	2	1	565535	Default: 5ms
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