PSI 9000 T/DT register list for devices with KE firmware from V3.05 (check the installed version in your device's MENU in item INFO HW, SW)												
			(0x03)	(90	(0x10)							
(pap)	(hex)		registers ((	(0x05)					S	,s		
address (	address (	(0x01)	g regis	coil (0					in byte	registers		
Bus add	Bus add	)) slioc	holding	single	multiple		Ø	type	length in bytes	er of re		
ModBu	ModBu	Read o	Read h	Write s	Write	Description	Access	Data t <sub>)</sub>	Data le		Data	Example or description
0	0x0000 0x0001		X			Device class Device type	R R	uint(16 char	) 2 r 40	2 1	ASCII	42 = PSI 9000 DT Series, 50 = PSI 9000 T PSI 9080-60 DT
21 41 61	0x0015 0x0029 0x003D	9	X X		+	Manufacturer Manufacturer address Manufacturer ZIP code	R R R	char	r 40	20	ASCII ASCII ASCII	
81 101	0x0051 0x0065	5	X			Manufacterer phone number Manufacturer website	R R	char char	r 40 r 40	20	ASCII ASCII	
121 123 125	0x0079 0x007B 0x007D	_	x x			Nominal voltage  Nominal current  Nominal power	R R R	float	t 4	4 2	Floating point number IEEE754 Floating point number IEEE754 Floating point number IEEE754	80 60 1500
127 129	0x007F 0x0081		X			Max. Internal resistance Min. Internal resistance	R	float	t 4	4 2	Floating point number IEEE754 Floating point number IEEE754	40 0.05
131 151	0x0083 0x0097 0x00AB		X		1	Article no. Serial no.	R	char	r 40	20	ASCII	06200511 1234567890
171 191 211	0x00BF 0x00D3		x x		х	User text Firmware version (KE) Firmware version (HMI)	RW R R	char	r 40	20	ASCII ASCII ASCII	V3.02 16.08.2016 V2.08 22.09.2016
231	0x00E7		х			Firmware version (DR)	R				ASCII	V1.0.4.1 30.06.2016
402 405 407	0x0192 0x0195 0x0197			x x	+	Remote mode DC output Condition of DC output after PF alarm	RW RW	uint(16	) 2	2 1	Coils : Remote Coils : Output/input Coils : Condition	0x0000 = off; 0xFF00 = on 0x0000 = off; 0xFF00 = on 0x0000 = off; 0xFF00 = auto
408 409	0x0198 0x0199	3 9 x	х	x	(	Condition of DC output after power ON Operation mode (UIP/UIR)	RW	uint(16	) 2	2 1 2 1	Reg : Condition Coils : Operation mode	0xFFFF = off; 0xFFFE = Restore 0x0000 = UIP; 0xFF00 = UIR
410 411 416	0x019A 0x019B 0x01A0			x x		Restart of the device (warm start)  Acknowledge alarms	W W RW	uint(16	) 2	2 1	Coils : Restart Coils : Alarms Coils : VREF	0xFF00 = execute 0xFF00 = acknowledge 0x0000 = 10V; 0xFF00 = 5V
417	0x01A1 0x01A2	X X X		X X		Analog interface: Reference voltage (pin VREF)  Analog interface: REM-SB level  Analog interface: REM-SB action	RW RW	uint(16	) 2	2 1	Coils : REM-SB Level Coils : REM-SB Action	0x0000 = 10V, 0xFF00 = 3V 0x0000 = normal; 0xFF00 = inverted 0x0000 = DC off; 0xFF00 = DC on/off
425 440	0x01A9 0x01B8		х	x :	<	Condition of DC output after leaving remote Analog interface: Pin 14 configuration	RW				Coils : Condition Reg: Alarms 1	0x0000 = off; 0xFF00 = auto 0x0000 = OVP (default);
												0x0001 = OCP; 0x0002 = OPP; 0x0003 = OVP + OCP;
												0x0004 = OVP + OPP; 0x0005 = OCP + OPP; 0x0006 = OVP + OCP + OPP
441	0x01B9	9	х	2	۲	Analog interface: Pin 6 configuration	RW	uint(16	) 2	2 1	Reg: Alarms 2	0x0000 = OT + PF (default); 0x0001 = OT;
442	0x01BA	(	х	-	<	Analog interface: Pin 15 configuration	RW	uint(16	) 2	2 1	Reg: Status DC	0x0002 = PF 0x0000 = CV; 0x0001 = DC on/off
500 501	0x01F4	5	x	1	(	Set voltage value Set current value	RW	uint(16	) 2	2 1	0x0000 - 0xD0E5 (0 - 102%) 0x0000 - 0xD0E5 (0 - 102%)	Voltage value (for translation see programming guide) Current value (for translation see programming guide)
502 503	0x01F6	_	x		_	Set power value Set resistance value	RW		4		0x0000 - 0xD0E5 (0 - 102%) minimum - 0xD0E5 (x - 102%)	Power value (for translation see programming guide) Resistance value (the minimum value varies from model to model and can be calculated
505	0x01F9	9	х			Device state	R	uint(32	) 4	4 2	Bit 0-4: Control location	from the technical specification in the manual)  0x00 = free; 0x01 = local; 0x02 = remote; 0x03 = USB; 0x04 = analog; 0x06 = Ethernet
											Bit 7 : DC input state Bit 9-10 : Regulation mode	0 = off; 1 = on 00 = CV; 01 = CR; 10 = CC; 11 = CP
											Bit 11 : Remote Bit 13 : Function generator	0 = off; 1 = on 0 = stopped ; 1 = running
											Bit 14 : Remote sensing Bit 15 : Alarms Bit 16 : OVP	0 = off; 1 = on 0 = none; 1 = active 0 = none; 1 = active
											Bit 17 : OCP Bit 18 : OPP	0 = none; 1 = active 0 = none; 1 = active
											Bit 19 : OT Bit 21 : Power fail Bit 22 : Power fail	0 = none; 1 = active 0 = none; 1 = active
											Bit 23 : Power fail Bit 24 : UVD	0 = none; 1 = active 0 = none; 1 = active 0 = none; 1 = active
											Bit 25 : OVD Bit 26 : UCD Bit 27 : OCD	0 = none; 1 = active 0 = none; 1 = active 0 = none; 1 = active
											Bit 28 : OPD Bit 30 : REM-SB	0 = none; 1 = active 0 = DC enabled; 1 = REM-SB disables DC output/input
507 508 509	0x01FB 0x01FC 0x01FD	3	X X			Actual voltage Actual current Actual power	R R R	uint(16	) 2	2 1	0x0000 - 0xFFFF (0 - 125%) 0x0000 - 0xFFFF (0 - 125%) 0x0000 - 0xFFFF (0 - 125%)	Actual voltage (for translation see programming guide)  Actual current (for translation see programming guide)  Actual power (for translation see programming guide)
520 521	0x0208	3	X			Count of OV alarms since power up Count of OC alarms since power up	R	uint(16	) 2	2 1	0x0000 - 0xFFFF 0x0000 - 0xFFFF 0x0000 - 0xFFFF	Count Count
522 523	0x020A 0x020B 0x020C	3	X			Count of OP alarms since power up  Count of OT alarms since power up	R	uint(16	) 2	2 1	0x0000 - 0xFFFF 0x0000 - 0xFFFF	Count
524 550 553	0x0226	9	X X	3	(	Count of PF alarms since power up Overvoltage protection threshold (OVP) Overcurrent protection threshold (OCP)	RW RW	uint(16	) 2	2 1	0x0000 - 0xFFFF 0x0000 - 0xE147 (0 - 110%) 0x0000 - 0xE147 (0 - 110%)	Count OVP threshold (for translation see programming guide) OCP threshold (for translation see programming guide)
556 559	0x022C	-	X X	1	(	Overpower protection threshold (OPP) Undervoltage detection (UVD)	RW RW	uint(16 uint(16	) 2	2 1 2 1	0x0000 - 0xE147 (0 - 110%) 0x0000 - 0xD0E5 (0 - 102%)	OPP threshold (for translation see programming guide) UVD threshold (for translation see programming guide)
560 561 562	0x0230 0x0231 0x0232	)	X X	3	(	Adjustable UVD notification  Overvoltage detection (OVD)  Adjustable OVD notification	RW RW	uint(16	) 2	2 1	Reg : Adjustable UVD notification  0x0000 - 0xD0E5 (0 - 102%)  Reg : Adjustable OVD notification	0x0000 = nothing; 0x0001 = signal; 0x0002 = warning; 0x0003 = alarm  OVD threshold (for translation see programming guide)  0x0000 = nothing; 0x0001 = signal; 0x0002 = warning; 0x0003 = alarm
563 564 565	0x0233 0x0234 0x0235	1	x x	:	(	Undercurrent detection (UCD) Adjustable UCD notification	RW RW	uint(16 uint(16	) 2	2 1 2 1	0x0000 - 0xD0E5 (0 - 102%)  Reg : Adjustable UCD notification  0x0000 - 0xD0E5 (0 - 102%)	UCD threshold (for translation see programming guide) 0x0000 = nothing; 0x0001 = signal; 0x0002 = warning; 0x0003 = alarm
566 567	0x0236 0x0237	7	X	1	(	Overcurrent detection (OCD) Adjustable OCD notification Overpower detection (OPD)	RW RW	uint(16	) 2	2 1	Reg : Adjustable OCD notification 0x0000 - 0xD0E5 (0 - 102%)	OCD threshold (for translation see programming guide)  0x0000 = nothing; 0x0001 = signal; 0x0002 = warning; 0x0003 = alarm  OPD threshold (for translation see programming guide)
568 577	0x0238 0x0241	1	X	3	(	Adjustable OPD notification  Condition of DC output after OT alarm	RW	uint(16	) 2	2 1	Reg : Adjustable OPD notification Reg: Condition	0x0000 = nothing; 0x0001 = signal; 0x0002 = warning; 0x0003 = alarm   0x0000 = off; 0x0001 = Restore
850 851	0x0352 0x0353	2 x	Н	x x		Function generator Arbitary: Start/stop Function generator Arbitrary: Select U	RW		4		Coils : Start/Stop Coils : Select U	0x0000 = Stop; 0xFF00 = Start 0x0000 = not assigned; 0xFF00 = Assign function to voltage
852 859	0x0354 0x035B	_	х	X	(	Function generator Arbitrary: Select I Function generator Arbitrary: Start sequence	RW RW	uint(16 uint(16	) 2	2 1 2 1	Coils : Select I 0x00010x0064	0x0000 = not assigned; 0xFF00 = Assign function to voltage
860 861 900	0x035C 0x035D 0x0384	_	x x			Function generator Arbitrary: End sequence Function generator Arbitrary: Sequence cycles Function generator Arbitrary: Setup for sequence 1	RW RW	uint(16	) 2	2 1	0x00010x0064 0x00000x03E7 Bytes 0-3: Us/ls(AC) in V	0x0000 = infinite Floating point number in IEEE754 format, see device manual for value
900	0.0004		$ \hat{\ } $		^	gonorator / usitirary. Getup for sequence 1	1244	noat	. 34	100	Bytes 4-7: Ue/Ie(AC) in V Bytes 8-11: fs(1/T) in Hz	rioating point number in IEEE/34 format, see device manual for value range, chapter about function generator Integer in IEEE/34 format: 010000Hz
											Bytes 12-15: fe(1/T) in Hz Bytes 16-19: Angle in degrees Bytes 20-23: Us/Is(DC) in V	Integer in IEEE754 format: 0°359° Floating point number in IEEE754 format, see device manual for value
				_							Bytes 24-27: Ue/le(DC) in V  Bytes 28-31: Sequence time in µs	range, chapter about function generator 136000000 (36 Mio.)
2468	0x09A4	1	X	↓ .	×	Function generatorArbitrary: Setup for sequence 99	RW	float	32	2 16	Bytes 0-3: Us/Is(AC) in V Bytes 4-7: Ue/Ie(AC) in V	Floating point number in IEEE754 format, see device manual for value range, chapter about function generator
											Bytes 8-11: fs(1/T) in Hz Bytes 12-15: fe(1/T) in Hz Bytes 16-19: Angle in degrees	Integer in IEEE754 format: 010000Hz  Integer in IEEE754 format: 0°359°
											Bytes 20-23: Us/Is(DC) in V Bytes 24-27: Ue/Ie(DC) in V	Floating point number in IEEE754 format, see device manual for value range, chapter about function generator
9000	0x2328	3	х		<u> </u>	Upper limit of voltage set value (U-max)	RW	uint(16	1 :	2 1	Bytes 28-31: Sequence time in μs  0x0000 - 0xD0E5 (0 - 102%)	136000000 (36 Mio.)  Voltage value (for translation see programming guide)
9001 9002	0x2329 0x232A	_	x		(	Lower limit of voltage set value (U-min) Upper limit of current set value (I-max)	RW RW	uint(16 uint(16	) 2	2 1 2 1	0x0000 - 0xD0E5 (0 - 102%) 0x0000 - 0xD0E5 (0 - 102%)	Voltage value (for translation see programming guide) Current value (for translation see programming guide)
9003 9004 9006	0x232B 0x232C 0x232E	;	x x x	2	(	Lower limit of current set value (I-min)  Upper limit of power set value (P-max)  Upper limit of resistance set value (R-max)	RW RW	uint(16	) 2	2 1	0x0000 - 0xD0E5 (0 - 102%) 0x0000 - 0xD0E5 (0 - 102%) 0x0000 - 0xD0E5 (0 - 102%)	Current value (for translation see programming guide)  Power value (for translation see programming guide)  Resistance value (for translation see programming guide)
10007	0x2717	7 x		x	i L	Ethernet: TCP keep-alive	RW			2 1	Coils: Keep-alive on/off	Ox0000 = off; 0xFF00 = on
10008	0x2718 0x271A	X	H	x	E	Ethernet: DHCP Protocol: Modbus	RW	uint(16	) 2	2 1	Coils: DHCP on/off Coils: MODBUS on/off	0x0000 = off; 0xFF00 = on 0x0000 = off; 0xFF00 = on
10011 10017 10502	0x271B 0x2721 0x2906	1	x	х	х	Protocol: SCPI Ethernet: DHCP status Ethernet: IP address	RW R RW	uint(16	) 2	2 1	Coils: SCPI on/off Bit0: DHCP running Bytes 0 - 3: 0255	0x0000 = off; 0xFF00 = on 0 = manual; 1 = DHCP 192.168.0.2 (default)
10504 10506	0x2908 0x290A	3	X X	1	X X	Ethernet: Subnet mask Ethernet: Gateway	RW RW	uint(8)	) 4	4 2 4 2	Bytes 0 - 3: 0255 Bytes 0 - 3: 0255	255.255.255.0 (Standard) 192.168.0.1 (default)
10508 10535 10562	0x290C 0x2927 0x2942	7	x x x		x x	Ethernet: Host name Ethernet: Domain name Ethernet: DNS	RW RW	char	r 54	4 27	ASCII ASCII Bytes 0 - 3: 0255	"Client" (default) "Workgroup" (default) 0.0.0.0 (default)
10562 10566 10567	0x2946 0x2947	7	X X	- 1		USB: Connection timeout (in milliseconds) Ethernet: MAC	RW RW	uint(16	) 2	2 1	565535 Bytes 0 - 5: 0255	Default: 5 ms 00:50:C2:C3:12:34 or 00-50-C2-C3-12-34
10572 10573	0x294C 0x294D		X	1		Ethernet: Port Ethernet: TCP Socket timeout (in seconds)	RW RW		) 2	2 1	065536 (except 80) 565535, 0 = inactive	5025 (default) Default: 5 s