PSI 9000 2U/3U/15U/24U register list for devices with KE firmware from V2.28 (Anybus) or V2.10 (GPIB) (check the installed version in your device's MENU in item INFO HW, SW)

Modbus address (dec)	Modbus address (hex)	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	EtherCAT SDO/PDO?
0	0x0000		x				Device class	R	uint(16)	2	1		21, 33, 35, 37 = PSI 9000 Series	1	0	x
1	0x0001		x				Device type	R	char	40	20	ASCII	PSI 9080-170	1	1	x
21	0x0015		x				Manufacturer	R	char	40	20	ASCII		1	2	x
41	0x0029		x				Manufacturer address	R	char	40	20	ASCII		1	3	x
61	0x003D		x				Manufacturer ZIP code	R	char	40	20	ASCII		1	4	x
81	0x0051		x				Manufacturer phone number	R	char	40	20	ASCII		1	5	x
101	0x0065		x				Manufacturer website	R	char	40	20	ASCII		1	6	x
121	0x0079		x				Nominal voltage	R	float	4	2	Floating point number IEEE754	80	1	7	x
123	0x007B		x				Nominal current	R	float	4	2	Floating point number IEEE754	170	1	8	x
125	0x007D		x				Nominal power	R	float	4	2	Floating point number IEEE754	3500	1	9	x
127	0x007F		x				Max. Internal resistance	R	float	4	2	Floating point number IEEE754	12	1	10	x
129	0x0081		x				Min. Internal resistance	R	float	4	2	Floating point number IEEE754	0	1	11	x
131	0x0083		x				Article no.	R	char	40	20	ASCII	33230401	1	12	x
151	0x0097		x				Serial no.	R	char	40	20	ASCII	1234560001	1	13	x
171	0x00AB		x			x	User text	RW	char	40	20	ASCII		1	14	x
191	0x00BF		x				Firmware version (KE)	R	char	40	20	ASCII	V2.01 05.09.2012	1	15	x
211	0x00D3		x				Firmware version (HMI)	R	char	40	20	ASCII	V2.02 13.08.2012	1	16	x
231	0x00E7		x				Firmware version (DR)	R	char	40	20	ASCII	V2.01 10.09.2012	1	17	x
402	0x0192	x		x			Remote mode	RW	uint(16)	2	1	Coils : Remote	0x0000 = off; 0xFF00 = on	2	1	x
405	0x0195	x		x			DC output	RW	uint(16)	2	1	Coils : Output	0x0000 = off; 0xFF00 = on	2	4	x
407	0x0197	x		x			Condition of DC output after power fail alarm	RW	uint(16)	2	1	Coils : Auto-On	0x0000 = off; 0xFF00 = auto	3	30	x
408	0x0198		x		x		Condition of DC output after powering the device	RW	uint(16)	2	1	Reg : Power-On	0xFFFF = off; 0xFFFE = restore	2	6	x
409	0x0199	x		x			Operation mode (UIP/UIR)	RW	uint(16)	2	1	Coils : Operation mode	0x0000 = UIP; 0xFF00 = UIR	2	7	x
410	0x019A			x			Restart of the device (warm start)	W	uint(16)	2	1	Coils : Restart	0xFF00 = execute	2	8	x
411	0x019B			x			Acknowledge alarms	W	uint(16)	2	1	Coils : Alarms	0xFF00 = acknowledge	2	9	x
416	0x01A0	x		x			Analog interface: Reference voltage (pin VREF)	RW	uint(16)	2	1	Coils : VREF	0x0000 = 10V; 0xFF00 = 5V	2	14	x
417	0x01A1	x		x			Analog interface: REM-SB level	RW	uint(16)	2	1	Coils : REM-SB Level	0x0000 = normal; 0xFF00 = inverted	2	36	x
418	0x01A2			x			Analog interface: REM-SB action	W	uint(16)	2	1	Coils : REM-SB Action	0x0000 = off; 0xFF00 = auto	2	37	x
425	0x01A9	x		x			DC output/input after leaving remote	R	uint(16)	2	1	Coils : Condition	0x0000 = off; 0xFF00 = unchanged	2	42	x
426	0x01AA	x		x			Function generator XY: Select PV mode	RW	uint(16)	2	1	Coils : PV mode	0x0000 = off; 0xFF00 = on	5	13	x
432	0x01B0	x		x			Reset device to factory settings	RW	uint(16)	2	1	Coils : Condition	0xFF00 = Trigger reset	2	43	x
440	0x01B8		x		x		Analog interface: Pin 14 configuration	RW	uint(16)	2	1	Alarms 1	0x0000 = OVP (default); 0x0001 = OCP; 0x0002 = OPP; 0x0003 = OVP + OCP; 0x0004 = OVP + OPP; 0x0005 = OCP + OPP; 0x0006 = OVP + OCP + OPP;	2	44	x
441	0x01B9		x		x		Analog interface: Pin 6 configuration	RW	uint(16)	2	1	Alarms 2	0x0000 = OT + PF (default); 0x0001 = OT; 0x0002 = PF;	2	45	x
442	0x01BA		x		x		Analog interface: Pin 15 configuration	RW	uint(16)	2	1	Status DC	0x0000 = CV; 0x0001 = DC output status	2	46	x
500	0x01F4		x		x		Set voltage value	RW	uint(16)	2	1	0x0000 - 0xD0E5 (0 - 102%)	Voltage value (for translation see programming guide)	2	23	x
501	0x01F5		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	x
502	0x01F6		x		x		Set power value	RW	uint(16)	2	1	0x0000 - 0xD0E5 (0 - 102%)	Power value (for translation see programming guide)	2	25	x
503	0x01F7		x		x		Set resistance value	RW	uint(16)	2	1	0x0000 - 0xCCCC (0 - 100%)	Resistance value (for translation see programming guide)	2	26	x
505	0x01F9		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; 0x18 = GPIB; 0x19 = CAN; 0x1A = EtherCAT	2	27	x
												Bit 5 : Config mode				
												Bit 6 : Master-slave type	0 = Slave; 1 = Master			
												Bit 7 : Output state	0 = off; 1 = on			
												Bit 9-10 : Regulation mode	00 = CV; 01 = CR; 10 = CC; 11 = CP			
												Bit 11 : Remote	0 = off; 1 = on			
												Bit 13 : Function generator	0 = stopped; 1 = running			
												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 21-23: Power fail	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 : MSP	0 = OK; 1 = Master-slave protection			
												Bit 30 : REM-SB	0 = DC enabled; 1 = REM-SB disables power output			
507	0x01FB		x				Actual voltage	R	uint(16)	2	1	0x0000 - 0xFFFF (0 - 125%)	Actual voltage (for translation see programming guide)	2	28	x
508	0x01FC		x				Actual current	R	uint(16)	2	1	0x0000 - 0xFFFF (0 - 125%)	Actual current (for translation see programming guide)	2	29	x
509	0x01FD		x				Actual power	R	uint(16)	2	1	0x0000 - 0xFFFF (0 - 125%)	Actual power (for translation see programming guide)	2	30	x
520	0x0208		x				Count of OV alarms since power up	R	uint(16)	2	1	0x0000 - 0xFFFF	Count	3	20	x
521	0x0209		x				Count of OC alarms since power up	R	uint(16)	2	1	0x0000 - 0xFFFF	Count	3	21	x
522	0x020A		x				Count of OP alarms since power up	R	uint(16)	2	1	0x0000 - 0xFFFF	Count	3	22	x
523	0x020B		x				Count of OT alarms since power up	R	uint(16)	2	1	0x0000 - 0xFFFF	Count	3	23	x
524	0x020C		x				Count of PF alarms since power up	R	uint(16)	2	1	0x0000 - 0xFFFF	Count	3	24	x
550	0x0226		x		x		Overvoltage protection threshold (OVP)	RW	uint(16)	2	1	0x0000 - 0xE147 (0 - 110%)	OVP threshold (for translation see programming guide)	3	0	x
553	0x0229		x		x		Overcurrent protection threshold (OCP)	RW	uint(16)	2	1	0x0000 - 0xE147 (0 - 110%)	OCP threshold (for translation see programming guide)	3	3	x
556	0x022C		x		x		Overpower protection threshold (OPP)	RW	uint(16)	2	1	0x0000 - 0xE147 (0 - 110%)	OPP threshold (for translation see programming guide)	3	6	x
559	0x022F		x		x		Undervoltage detection (UVD)	RW	uint(16)	2	1	0x0000 - 0xD0E5 (0 - 102%)	UVD threshold (for translation see programming guide)	3	9	x
560	0x0230		x		x		Adjustable UVD notification	RW	uint(16)	2	1	Adjustable UVD notification	0x0000 = nothing; 0x0001 = signal; 0x0002 = warning; 0x0003 = alarm	3	10	x
561	0x0231		x		x		Overvoltage detection (OVD)	RW	uint(16)	2	1	0x0000 - 0xD0E5 (0 - 102%)	OVD threshold (for translation see programming guide)	3	11	x
562	0x0232		x		x		Adjustable OVD notification	RW	uint(16)	2	1	Adjustable OVD notification	0x0000 = nothing; 0x0001 = signal; 0x0002 = warning; 0x0003 = alarm	3	12	x
563	0x0233		x		x		Undercurrent detection (UCD)	RW	uint(16)	2	1	0x0000 - 0xD0E5 (0 - 102%)	UCD threshold (for translation see programming guide)	3	13	x
564	0x0234		x		x		Adjustable UCD notification	RW	uint(16)	2	1	Adjustable UCD notification	0x0000 = nothing; 0x0001 = signal; 0x0002 = warning; 0x0003 = alarm	3	14	x
565	0x0235		x		x		Overcurrent detection (OCD)	RW	uint(16)	2	1	0x0000 - 0xD0E5 (0 - 102%)	OCD threshold (for translation see programming guide)	3	15	x
566	0x0236		x		x		Adjustable OCD notification	RW	uint(16)	2	1	Adjustable OCD notification	0x0000 = nothing; 0x0001 = signal; 0x0002 = warning; 0x0003 = alarm	3	16	x
567	0x0237		x		x		Overpower detection (OPD)	RW	uint(16)	2	1	0x0000 - 0xD0E5 (0 - 102%)	OPD threshold (for translation see programming guide)	3	17	x
568	0x0238		x		x		Adjustable OPD notification	RW	uint(16)	2	1	Adjustable OPD notification	0x0000 = nothing; 0x0001 = signal; 0x0002 = warning; 0x0003 = alarm	3	18	x
577	0x0241		x		x		Condition of DC output after OT alarm	RW	uint(16)	2	1	Reg: Condition	0x0000 = off; 0x0001 = restore (default)	3	37	
650	0x028A	x		x			Master-slave: Link mode on MS bus	RW	uint(16)	2	1	Coils: Mode	0x0000 = Slave; 0xFF00 = Master	4	0	x
651	0x028B		x		x		Master-slave: Address	RW	uint(16)	2	1	Reg: Address	0x0001…0x000F	4	1	x
653	0x028D	x		x			Master-slave: Enable MS	RW	uint(16)	2	1	Coils: MS on/off	0x0000 = off; 0xFF00 = on	4	3	x
654	0x028E			x			Master-slave: Init MS	W	uint(16)	2	1	Coils: MS start init	0xFF00 = Start init	4	4	x
655	0x028F		x		x		Master-slave: Condition	R	uint(16)	2	1	Reg: MS status	0x0000 = not initialised; 0x0001 = init running; 0x0003 = set defaults; 0x0004 = setup interface; 0x0005 = assignment; 0xFFFC = disrupted; 0xFFFD = different models detected, init not OK; 0xFFFE = error; 0xFFFF = init OK	4	5	x
656	0x0290		x				Master-slave: Total voltage in V	R	float	4	2	Floating point number IEEE754	500	4	6	x
658	0x0292		x				Master-slave: Total current in A	R	float	4	2	Floating point number IEEE754	300	4	7	x
660	0x0294		x				Master-slave: Total power in W	R	float	4	2	Floating point number IEEE754	150000	4	8	x
662	0x0296		x				Master-slave: Number of initialised slaves	R	uint(16)	2	1		1…15	4	9	x
850	0x0352	x		x			Function generator Arbitary: Start/stop	RW	uint(16)	2	1	Coils : Start/Stop	0x0000 = Stop; 0xFF00 = Start	5	0	x
851	0x0353	x		x			Function generator Arbitrary: Select U	RW	uint(16)	2	1	Coils : U	0x0000 = not assigned; 0xFF00 = Assign function to voltage	5	1	x
852	0x0354	x		x			Function generator Arbitrary: Select I	RW	uint(16)	2	1	Coils : I	0x0000 = not assigned; 0xFF00 = Assign function to current	5	2	x
854	0x0356	x		x			Function generator XY: Select U-I mode	RW	uint(16)	2	1	Coils : U-I	0x0000 = not assigned; 0xFF00 = Assign function to U-I curve	5	4	x
855	0x0357	x		x			Function generator XY: Select I-U mode	RW	uint(16)	2	1	Coils : I-U	0x0000 = not assigned; 0xFF00 = Assign function to I-U curve	5	5	x
859	0x035B		x		x		Function generator Arbitrary: Start sequence	RW	uint(16)	2	1	0x0001…0x0063		5	9	x
860	0x035C		x		x		Function generator Arbitrary: End sequence	RW	uint(16)	2	1	0x0001…0x0063		5	10	x
861	0x035D		x		x		Function generator Arbitrary: Sequence cycles	RW	uint(16)	2	1	0x0000...0x03E7	0x0000 = infinite	5	11	x
900	0x0384		x			x	Function generator Arbitrary: Setup for sequence 1	RW	float	32	16	Bytes 0-3: Us/Is(AC) in V	Floating point number in IEEE754 format, see device manual for value range, chapter about function generator	6	0	x
												Bytes 4-7: Ue/Ie(AC) in V				
												Bytes 8-11: fs(1/T) in Hz	Integer in IEEE754 format: 0...10000 Hz			
												Bytes 12-15: fe(1/T) in Hz	Integer in IEEE754 format: 0...10000 Hz			
												Bytes 16-19: Angle in degrees	Integer in IEEE754 format: 0°...359°			
												Bytes 20-23: Us/Is(DC) in V	Floating point number in IEEE754 format, see device manual for value range, chapter about function generator			
												Bytes 24-27: Ue/Ie(DC) in V				
												Bytes 28-31: Sequence time in µs	Floating point number in IEEE754 format: 100 µs...36,000,000,000 µs			
↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
2468	0x09A4		x			x	Function generatorArbitrary: Setup for sequence 99	RW	float	32	16	Bytes 0-3: Us/Is(AC) in V	Floating point number in IEEE754 format, see device manual for value range, chapter about function generator	6	98	x
												Bytes 4-7: Ue/Ie(AC) in V				
												Bytes 8-11: fs(1/T) in Hz	Integer in IEEE754 format: 0...10000 Hz			
												Bytes 12-15: fe(1/T) in Hz	Integer in IEEE754 format: 0...10000 Hz			
												Bytes 16-19: Angle in degrees	Integer in IEEE754 format: 0°...359°			
												Bytes 20-23: Us/Is(DC) in V	Floating point number in IEEE754 format, see device manual for value range, chapter about function generator			
												Bytes 24-27: Ue/Ie(DC) in V				
												Bytes 28-31: Sequence time in µs	Floating point number in IEEE754 format: 100 µs...36,000,000,000 µs			
2600	0x0A28		x			x	Function generator: X/Y table, block 0	RW	uint(16)	32	16	UI mode: set voltage value IU mode: set current value (16 values block)	value = real set value of voltage * 0.8 / Unom * 32768 or value = real set value of current * 0.8 / Inom * 32768	7	0	x
↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
6680	0x1A18		x			x	Function generator: X/Y table, block 255	RW	uint(16)	32	16	UI mode: set voltage value IU mode: set current value (16 values block)	value = real set value of voltage * 0.8 / Unom * 32768 or value = real set value of current * 0.8 / Inom * 32768	7	255	x
9000	0x2328		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	x
9001	0x2329		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	x
9002	0x232A		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	x
9003	0x232B		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	x
9004	0x232C		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	x
9006	0x232E		x		x		Upper limit of resistance set value (R-max)	RW	uint(16)	2	1	ELR: variable - 0xD0E5 (x - 102%) Minimum value needs to be cal-culated, refer to programming guide PS: 0x0000 - 0xD0E5 (0 - 102%)	Resistance value (for translation see programming guide)	2	37	x
10007	0x2717	x		x			Ethernet: TCP keep-alive timeout	RW	uint(16)	2	1	Coils: Keep-alive on/off	0x0000 = off; 0xFF00 = on			
10008	0x2718	x		x			Ethernet/Profinet/Modbus TCP: DHCP	RW	uint(16)	2	1	Coils: DHCP on/off	0x0000 = off; 0xFF00 = on			
10010	0x271A	x		x			Protocol: Modbus	RW	uint(16)	2	1	Coils: MODBUS on/off	0x0000 = off; 0xFF00 = on			
10011	0x271B	x		x			Protocol: SCPI	RW	uint(16)	2	1	Coils: SCPI on/off	0x0000 = off; 0xFF00 = on			
10012	0x271C	x		x			Reset interface card	RW	uint(16)	2	1	Coils: Reset	0xFF00 = Trigger reset			
10020	0x2724		x				AnyBus module: Type	R	uint(16)	2	1	Reg: Type	0x0005 = Profibus			
													0x0009 = RS232			
													0x0010 = CANopen			
													0x0011 = Devicenet			
													0x0012 = Modbus-TCP 1P			
													0x0013 = Profinet 1P			
													0x0014 = Ethernet 1P			
													0x0015 = Ethernet 2P			
													0x0016 = Modbus-TCP 2P			
													0x0017 = Profinet 2P			
													0x0019 = CAN			
													0x001A = EtherCAT			
													0x00FF = no or unknown module plugged			
10021	0x2725		x				AnyBus module: Interface type	R	char	40	20	ASCII	"Profibus DPV1"			
10041	0x2739		x				AnyBus module: Version number	R	uint(8)	4	2					
10043	0x273B		x				AnyBus module: Serial number	R	uint(32)	4	2					
10251	0x280B		x		x		Profibus: Ident number	RW	uint(16)	2	1		0xA001	8	0	
10252	0x280C		x		x		Profibus/CanOpen: Slave address	RW	uint(16)	2	1		Profibus: 0-125 ; CANopen: 0-127	8	1	
10253	0x280D		x			x	Profibus/Profinet: User-defineable "Function tag"	RW	char	32	16	ASCII	"Test"	8	2	
10269	0x281D		x			x	Profibus/Profinet: User-defineable "Location tag"	RW	char	22	11	ASCII	"Test"	8	3	
10280	0x2828		x			x	Profibus/Profinet: User-defineable installation date	RW	char	40	20	ASCII	"13.01.2012 09:59:00"	8	4	
10300	0x283C		x			x	Profibus/Profinet: User-defineable description	RW	char	54	27	ASCII	"www.webpage.de"	8	5	
10354	0x2872		x			x	Profinet: User-defineable "Station name"	RW	char	200	100	ASCII	"Test"	8	6	
10502	0x2906		x			x	Ethernet/Modbus TCP: IP address	RW	uint(8)	4	2	Bytes 0-3: 0..255	192.168.0.2 (default)			
10504	0x2908		x			x	Ethernet/Modbus TCP: Subnet mask	RW	uint(8)	4	2	Bytes 0-3: 0..255	255.255.255.0 (default)			
10506	0x290A		x			x	Ethernet/Modbus TCP: Gateway	RW	uint(8)	4	2	Bytes 0-3: 0..255	192.168.0.1 (default)			
10508	0x290C		x			x	Ethernet/Profinet/Modbus TCP: Host name	RW	char	54	27	ASCII	"Client" (default)			
10535	0x2927		x			x	Ethernet/Profinet/Modbus TCP: Domain name	RW	char	54	27	ASCII	"Workgroup" (default)			
10562	0x2942		x			x	Ethernet/Modbus TCP: DNS 1	RW	uint(8)	4	2	Bytes 0-3: 0..255	0.0.0.0 (default)			
10564	0x2944		x			x	Ethernet/Modbus TCP: DNS 2	RW	uint(8)	4	2	Bytes 0-3: 0..255	0.0.0.0 (default)			
10566	0x2946		x		x		RS232/USB: Connection timeout in milliseconds	RW	uint(16)	2	1	5..65535	Default: 5ms			
10567	0x2947		x				Ethernet/Profinet/Modbus TCP: MAC	R	uint(8)	6	3	Bytes 0-5: 0..255	00:50:C2:C3:12:34 or 00-50-C2-C3-12-34			
10570	0x294A		x		x		Ethernet/Modbus TCP: Connection speed Port 1 (1 & 2 port modules)	RW	uint(16)	2	1	Connection speed	0x0000 = Auto; 0x0001 = 10Mbit half duplex; 0x0002 = 10Mbit full duplex; 0x0003 = 100Mbit half duplex; 0x0004 = 100Mbit full duplex			
10571	0x294B		x		x		Ethernet/Modbus TCP: Connection speed Port 2 (2 port module)	RW	uint(16)	2	1	Connection speed	0x0000 = Auto; 0x0001 = 10Mbit half duplex; 0x0002 = 10Mbit full duplex; 0x0003 = 100Mbit half duplex; 0x0004 = 100Mbit full duplex			
10572	0x294C		x		x		Ethernet/Modbus TCP: Port	RW	uint(16)	2	1	0..65535	5025 (default), except port 80			
10573	0x294D		x		x		Ethernet: TCP Socket timeout (in seconds)	RW	uint(16)	2	1	5..65535	0 = timeout inactive; 5 = 5 s (default)			
10700	0x29CC		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	0x29CD	x		x			CAN: ID format	RW	uint(16)	2	1	Coils: Base/Extended	0x0000 = Base (11 Bit); 0xFF00 = Extended (29 Bit)			
10702	0x29CE	x		x			CAN: Termination	RW	uint(16)	2	1	Coils: Bus termination	0x0000 = off; 0xFF00 = on			
10704	0x29D0		x			x	CAN: Base ID	RW	uint(32)	4	2	0x0000…0x07FF or 0x0000…0x1FFFFFFF	Default: 0x000			
10706	0x29D2		x			x	CAN: Broadcast ID	RW	uint(32)	4	2	0x0000…0x07FF or 0x0000…0x1FFFFFFF	Default: 0x7FF			
10709	0x29D5	x		x			CAN: Data length	RW	uint(16)	2	1	Coils: Data length	0x0000 = Auto; 0xFF00 = Always 8 bytes			
10710	0x29D6		x			x	CAN: Cyclic read: Base ID	RW	uint(32)	4	2	0x0000…0x07FF or 0x0000…0x1FFFFFFF	Default: 0x100			
10712	0x29D8		x			x	CAN: Cyclic send: Base ID	RW	uint(32)	4	2	0x0000…0x07FF or 0x0000…0x1FFFFFFF	Default: 0x200			
10714	0x29DA		x		x		CAN: Cyclic read time (in ms): Status	RW	uint(16)	2	1	20…5000; 0 == off	Default: off			
10715	0x29DB		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	0x29DC		x		x		CAN: Cyclic read time (in ms): Limits 2 (P, R)	RW	uint(16)	2	1	20…5000; 0 == off	Default: off			
10717	0x29DD		x		x		CAN: Cyclic read time (in ms): Limits 1 (U, I)	RW	uint(16)	2	1	20…5000; 0 == off	Default: off			
10718	0x29DE		x		x		CAN: Cyclic read time (in ms): Actual values U, I, P	RW	uint(16)	2	1	20…5000; 0 == off	Default: off			
10900	0x2A94		x		x		GPIB address (option 3W)	RW	uint(16)	2	1	1…30				
12000	0x2EE0	x		x			Function generator PV: Start/Stop	RW	uint(16)	2	1	Coils: Start/Stop	0x0000 = Stop; 0xFF00 = Start	10	0	x
12001	0x2EE1		x		x		Function generator PV: Simulation mode	RW	uint(16)	2	1	Mode	0x0000 = off; 0x0001 = Irradiation/temperature; 0x0002 = Umpp/Impp; 0x0003 = Daily trend irradiation/temp.; 0x0004 = Daily trend Umpp/Impp	10	1	x
12002	0x2EE2		x				Function generator PV: MPP Voltage	R	uint(16)	2	1	0x0000 - 0xCCCC	MPP voltage (for translation see programming guide)	10	2	x
12003	0x2EE3		x				Function generator PV: MPP Current	R	uint(16)	2	1	0x0000 - 0xCCCC	MPP current (for translation see programming guide)	10	3	x
12004	0x2EE4		x				Function generator PV: MPP Power	R	uint(16)	2	1	0x0000 - 0xCCCC	MPP power (for translation see programming guide)	10	4	x
12005	0x2EE5	x		x			Function generator PV: Interpolation	RW	uint(16)	2	1	Coils: Interpolation	0x0000 = off; 0xFF00 = on	10	5	x
12006	0x2EE6	x		x			Function generator PV: Day trend (mode)	RW	uint(16)	2	1	Coils: Mode	0x0000 = read only; 0xFF00 = write	10	6	x
12007	0x2EE7			x			Function generator PV: Day trend (clear completely)	W	uint(16)	2	1	Coils: Clear	0xFF00 = clear	10	7	x
12008	0x2EE8		x			x	Function generator PV: Day trend (index)	RW	uint(32)	4	2	1…100000	0x00001 = Index 1	10	8	x
12010	0x2EEA		x			x	Function generator PV: Day trend index data	RW	)	12	6	Byte 0-3: Index [0x00000001…0x000186A0] Byte 4-5: E or U-MPP [0x0000…0xCCCC] Byte 6-7: Temp. ϑ or I-MPP [0x0000…0xCCCC] Byte 8-11: Δt in [ms] 500...1800000	Currently selected index Irradiation or U-MPP (for translation see register 12053) or U-MPP (for translation see programming guide) Module temperature (for translation see register 12052) or I-MPP (for translation see programming guide) Dwelltime of index	10	9	x
12016	0x2EF0		x		x		Function generator PV: Technology	RW	uint(16)	2	1	Technology	0x0000 = Manual; 0x0001 = cSI technology; 0x0002 = Thin film technology	10	10	x
12017	0x2EF1	x		x			Function generator PV: Input mode	RW	uint(16)	2	1	Coils: Mode	0x0000 = MPP; 0xFF00 = ULIK	10	11	x
12018	0x2EF2	x		x			Function generator PV: Activate data recording	RW	uint(16)	2	1	Coils: Record	0x0000 = halt; 0xFF00 = continue	10	12	x
12019	0x2EF3			x			Function generator PV: Clear recorded data	W	uint(16)	2	1	Coils: Clear	0xFF00 = clear	10	13	x
12020	0x2EF4		x				Function generator PV: Actual record count	R	uint(32)	4	2	0x00000000...0x0008CA00	0x0000000F = 15 recorded values	10	14	x
12022	0x2EF6		x			x	Function generator PV: Record index	RW	uint(32)	4	2	0x00000001...0x0008CA00	0x0008CA00 = Index 576,000 (highest possible index)	10	15	x
12024	0x2EF8		x				Function generator PV: Data set	R		16	8	Byte 0-3:Actual index [0x00000001...0x0008CA00] Byte 4-5: U_ist [0x0000…0xCCCC] Byte 6-7: I_ist [0x0000…0xCCCC] Byte 8-9: P_ist [0x0000…0xCCCC] Byte 10-11: U_mpp [0x0000…0xCCCC] Byte 12-3: I_mpp [0x0000…0xCCCC] Byte 14-15: P_mpp [0x0000…0xCCCC]	Actual index Actual voltage Actual current Actual power MPP voltage MPP current MPP power	10	16	x
12032	0x2F00		x				Function generator PV: Open circuit voltage	R	uint(16)	2	1	0x0000...0xCCCC	Open circuit voltage (for translation see programming guide)	10	17	x
12033	0x2F01		x				Function generator PV: Short-circuit current	R	uint(16)	2	1	0x0000...0xCCCC	Short circuit current (for translation see programming guide)	10	18	x
12034	0x2F02		x			x	Function generator PV: Fill factor (voltage)	RW	float	4	2	FFu, >0…1 (cSI: 0.8; thing film: 0.72)	Floating point number in IEEE754 format	10	20	x
12036	0x2F04		x			x	Function generator PV: Fill factor (current)	RW	float	4	2	FFi, >0…1 (cSI: 0.9; thin film: 0.8)	Floating point number in IEEE754 format	10	22	x
12038	0x2F06		x			x	Function generator PV: Temperature coefficient for Isc (Technology parameter)	RW	float	4	2	α in 1/°C; values >0…1 [cSI: 0.0004; thin film: 0.0002]	Floating point number in IEEE754 format	10	23	x
12040	0x2F08		x			x	Function generator PV: Temperature coefficient for Uoc (Technology parameter)	RW	float	4	2	β in 1/°C; values <0…-1 [cSI: -0.004; thin film: -0.002]	Floating point number in IEEE754 format	10	24	x
12042	0x2F0A		x			x	Function generator PV: Correction factor Cu(Technology parameter)	RW	float	4	2	Cu without unit; values > 0…1 [cSI: 0.08593; thin film: 0.08419]	Floating point number in IEEE754 format	10	26	x
12044	0x2F0C		x			x	Function generator PV: Correction factor Cr (Technology parameter)	RW	float	4	2	Cr in m²/W; values >0…1 [cSI: 0.0001088; thin film: 0.0001476]	Floating point number in IEEE754 format	10	28	x
12046	0x2F0E		x			x	Function generator PV: Correction factor Cg/Es (Technology parameter)	RW	float	4	2	Cg in W/m²; values >0…1 [cSI: 0.002514; thin film: 0.001252]	Floating point number in IEEE754 format	10	30	x
12048	0x2F10		x		x		Function generator PV: Open circuit voltage STC (Standard Test condition)	RW	uint(16)	2	1	0x0000 - 0xCCCC	Open circuit voltage (for translation see programming guide)	10	31	x
12049	0x2F11		x		x		Function generator PV: Short circuit current STC	RW	uint(16)	2	1	0x0000 - 0xCCCC	Short circuit current (for translation see programming guide)	10	32	x
12050	0x2F12		x		x		Function generator PV: MPP Voltage STC	RW	uint(16)	2	1	0x0000 - 0xCCCC	MPP voltage (for translation see programming guide)	10	33	x
12051	0x2F13		x		x		Function generator PV: MPP current STC	RW	uint(16)	2	1	0x0000 - 0xCCCC	MPP current (for translation see programming guide)	10	34	x
12052	0x2F14		x		x		Function generator PV: Module temperature	RW	uint(16)	2	1	ϑmodule in °C; 0x0000…0xCCCC corresponds to -40…80 °C	Module temperature (translation: value = [real value+40]/120*52428)	10	35	x
12053	0x2F15		x		x		Function generator PV: Irradiation	RW	uint(16)	2	1	E in W/m²; 0x0000…0xCCCC corresponds to 0-1500 W/m	Irradiation (translation: value = real value/1500*52428)	10	36	x
12054	0x2F16		x				Function generator PV: Status	R	uint(16)	2	1	Status code of PV simulation	0x0000 = Stop; 0x0001 = Run; 0x0002 = Stopped, mode fault; 0x0003 = Stopped, day trend fault; 0x0004 = Stopped, alarm; 0x0005 = Stopped, interpolation fault	10	37	x
12055	0x2F17		x				Function generator PV: Actual day data count	R	uint(32)	4	2	0x00000000…0x000186A0	0x0000000F = 15 data samples written	10	38	x