

PSI 9000 2U/3U/15U/24U register list for devices with KE firmware from V2.24 (Anybus) or V2.08 (GPIB) (check the installed version in your device's MENU in item INFO HW, SW)																
Module address	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		Example	Profibus slot / Profinet subnet	Profibus/Profinet index in slot	EtherCAT SDOP/DO?	
0	x					Device class	R	uint(16)	2	1		21, 33, 35, 37 = PSI 9000 Series	1	0	x	
1		x				Device type	R	char	40	20	ASCII			1	1	x
21	x					Manufacturer	R	char	40	20	ASCII			1	2	x
41	x					Manufacturer address	R	char	40	20	ASCII			1	3	x
61	x					Manufacturer ZIP code	R	char	40	20	ASCII			1	4	x
81	x					Manufacturer phone number	R	char	40	20	ASCII			1	5	x
101	x					Manufacturer website	R	char	40	20	ASCII			1	6	x
121	x					Nominal voltage	R	float	4	2	Floating point number IEEE754	80	1	7	x	
123	x					Nominal current	R	float	4	2	Floating point number IEEE754	170	1	8	x	
125	x					Nominal power	R	float	4	2	Floating point number IEEE754	3500	1	9	x	
127	x					Max. Internal resistance	R	float	4	2	Floating point number IEEE754	12	1	10	x	
129	x					Min. Internal resistance	R	float	4	2	Floating point number IEEE754	0	1	11	x	
131	x					Article no.	R	char	40	20	ASCII	32320401	1	12	x	
151	x					Serial no.	R	char	40	20	ASCII	1234560001	1	13	x	
171	x			x		User text	RW	char	40	20	ASCII		1	14	x	
191	x					Firmware version (KE)	R	char	40	20	ASCII	V2.01 05.09.2012	1	15	x	
211	x					Firmware version (HM)	R	char	40	20	ASCII	V2.02 13.08.2012	1	16	x	
231	x					Firmware version (DR)	R	char	40	20	ASCII	V2.01 10.09.2012	1	17	x	
402	x	x				Remote mode	RW	uint(16)	2	1	0x0000 = off; 0x0F00 = on	0x0000 = off; 0x0F00 = on	2	1	x	
405	x	x				DC output	RW	uint(16)	2	1	0x0000 = off; 0x0F00 = on	0x0000 = off; 0x0F00 = on	2	4	x	
407	x	x				Condition of DC output after power fail alarm	RW	uint(16)	2	1	0x0000 = off; 0x0F00 = auto-on	0x0000 = off; 0x0F00 = auto-on	3	30	x	
408	x	x	x			Condition of DC output after powering the device	RW	uint(16)	2	1	0xFFFF = off; 0x0FFF = restore	0xFFFF = off; 0x0FFF = restore	2	6	x	
409	x	x				Operation mode (UIP/UR)	RW	uint(16)	2	1	0x0000 = UIP; 0x0F00 = UR	0x0000 = UIP; 0x0F00 = UR	2	7	x	
410		x				Restart of the device (warm start)	W	uint(16)	2	1	0x0000 = execute	0x0F00 = execute	2	8	x	
411		x				Acknowledge alarms	W	uint(16)	2	1	0x0000 = acknowledge	0x0F00 = acknowledge	2	9	x	
416	x	x				Analog interface: Reference voltage (pin VREF)	RW	uint(16)	2	1	0x0000 = VREF	0x0000 = 10V; 0x0F00 = 5V	2	14	x	
417	x	x				Analog interface: REM-SB level	RW	uint(16)	2	1	0x0000 = normal; 0x0F00 = inverted	0x0000 = normal; 0x0F00 = inverted	2	36	x	
419	x	x				Analog interface: REM-SB action	W	uint(16)	2	1	0x0000 = DC off; 0x0F00 = DC auto	0x0000 = DC off; 0x0F00 = DC auto	2	37	x	
425	x	x				DC output/input after leaving remote	RW	uint(16)	2	1	0x0000 = off; 0x0F00 = unchanged	0x0000 = off; 0x0F00 = unchanged	2	38	x	
426	x	x				Function generator XY: Select PV mode	RW	uint(16)	2	1	0x0000 = off; 0x0F00 = on	0x0000 = off; 0x0F00 = on	5	13	x	
440						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;				
441	x			x		Analog interface: Pin 6 configuration	RW	uint(16)	2	1	Alarms 2	0x0000 = OT + PF (default); 0x0001 = OT; 0x0002 = PF;				
442	x			x		Analog interface: Pin 15 configuration	RW	uint(16)	2	1	Status DC	0x0000 = CV; 0x0001 = DC output status				
500	x	x				Set voltage value	RW	uint(16)	2	1	0x0000 - 0x00E5 (0 - 102%)	Voltage value (for translation see programming guide)	2	23	x	
501	x	x				Set current value or irradiation (PV function)	RW	uint(16)	2	1	0x0000 - 0x00E5 (0 - 102%)	Current value (for translation see programming guide) / Irradiation	2	24	x	
502	x	x				Set power value	RW	uint(16)	2	1	0x0000 - 0x00E5 (0 - 102%)	Power value (for translation see programming guide)	2	25	x	
503	x	x				Set resistance value	RW	uint(16)	2	1	0x0000 - 0x0C0C (0 - 100%)	Resistance value (for translation see programming guide)	2	26	x	
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; 0x13 = Profinet IP; 0x14 = Ethernet IP; 0x15 = Ethernet 2P; 0x16 = Modbus TCP 2P; 0x17 = Profinet 2P; 0x18 = GPB; 0x19 = CAN; 0x1A = EtherCAT	2	27	x	