PSI 8000 T / DT / 2U / 3U

对象 / Object	描述 / Description	访问 / Access	访问条件 / Access condition	数据类型 / Data type	数据字节长度 / Data length in Bytes	char'类型的掩码 / Mask for type 'char'	数据 / Data	举例或进一步描述 / Example or further description
0	产品型号 / Device Type	ro		string	16			PSI 8032-20T + EOL　(EOL=行尾)
1	产品系列号 / Device serial no.	ro		string	16			150000001 + EOL
2	额定电压 / Nominal voltage	ro		float	4			U额定 / Unom = 32.0　(基于IEEE75浮点数 / Floating point number IEEE754 Standard)
3	额定电流 / Nominal current	ro		float	4			I额定 / Inom = 20.0　(基于IEEE75浮点数 / Floating point number IEEE754 Standard)
4	额定功率 / Nominal power	ro		float	4			P额定 / Pnom = 640.0　(基于IEEE75浮点数 / Floating point number IEEE754 Standard)
5	最大内阻 / Max. internal resistance	ro		float	4			R额定 / Rnom = 32.0　(基于IEEE754浮点数 / Floating point number IEEE754 Standard)
6	产品编号 / Order no.	ro		string	16			09200403 + EOL
7	用户文本 / User text	rw		string	16			最多15个字符 / Max. 15 characters + EOL
8	生产商 / Manufacturer	ro		string	16			生产商名称 / Manufacturer's name + EOL
9	软件版本 / Software version	ro		string	16			V2.01 01.01.09 + EOL
10	端口类型 / Interface type	ro		string	16			IF-R1
11	接口编号 / Interface serial no.	ro		string	16			10100001 + EOL
12	端口订单号 / Interface order no.	ro		string	16			33100213 + EOL
13	接口软件版本 / Interface software version	ro		string	16			V3.01 + EOL
18	软件版本2 / 2nd software version	ro		string	16			V2.01 01.01.09 + EOL
19	产品级别 / Device class	ro		int	2			0x000A = PSI8000 T, 0x0010 = PSI8000 2U, 0x0011 = PSI8000 DT
20	存储和上载配置文件 / Save and load of profiles	rw	1	char	2	0x07 Bit 0..2: : 0x20 Bit 5: 0x40 Bit 6: 0x80 Bit 7:		选择配置文件号 / Select profile no. 0 = default; 1 = Profile 1; 2 = Profile 2; 3 = Profile 3; 4 = Profile 4 上载已选配置文件 / Load selected profile (1...4) 将当前配置文件存储到内存x / Save current profile to memory x 配置文件上载/存储忙 / Profile load/save are busy
21	启用预设清单号 / Enable preset list no.	rw	1	char	2	0x01 Bit 0: 0x02 Bit 1: 0x04 Bit 2: 0x08 Bit 3:		启用预设清单1号 / Preset list no.1 is enabled 启用预设清单2号 / Preset list no.2 is enabled 启用预设清单3号 / Preset list no.3 is enabled 启用预设清单4号 / Preset list no.4 is enabled
22	预设清单 [0] U+I / Preset list [0]　U+I	rw	1	int	4	Word 0: Word 1:		设定电压（%的额定电压* 256）/ Set value of voltage (% of Unom * 256) 设定电流（%的额定电流* 256）/ Set value of current (% of Inom * 256)
23	预设清单 [1] U+I / Preset list [1]　U+I	rw	1	int	4			Uadjmin <= U <= Uadjmax; Iadjmin <= I <= Iadjmax
24	预设清单 [2] U+I / Preset list [2]　U+I	rw	1	int	4			
25	预设清单 [3] U+I / Preset list [3]　U+I	rw	1	int	4			
26	预设清单 [0] P+R / Preset list [0]　P+R	rw	1	int	4	Word 0: Word 1:		设定功率（%的Pnom * 256）/ Set value of power (% of Pnom * 256) 设定阻值（%的2 * Rnom * 256）/ Set value of resistance (% of 2 * Rnom * 256)
27	预设清单 [1] P+R / Preset list [1]　P+R	rw	1	int	4			
28	预设清单 [2] P+R / Preset list [2]　P+R	rw	1	int	4			
29	预设清单 [3] P+R / Preset list [3]　P+R	rw	1	int	4			
30	最大可调电压 / Max. adjustable voltage	rw	1	int	2			电压极限（%的额定电压* 256）/ Voltage limit (% of Unom*256)
31	最小可调电压 / Min. adjustable voltage	rw	1	int	2			电压极限（%的额定电压* 256）/ Voltage limit (% of Unom*256)
32	最大可调电流 / Max. adjustable current	rw	1	int	2			电流极限（%的额定电流* 256）/ Current limit (% of Inom*256)
33	最小可调电流 / Min. adjustable current	rw	1	int	2			电流极限（%的额定电流* 256）/ Current limit (% of Inom*256)
34	最大可调功率 / Max. adjustable power	rw	1	int	2			功率极限（%的额定功率* 256）/ Power limit (% of Pnom*256)
35	最大可调内阻 / Max. adj. resistance	rw	1+2	int	2			阻值极限（%的2 * Rnom * 256）/ Resistance limit (% of 2 * Rnom*256) Rnom = 10 * Unom/Inom; Radjmax <= 2 * Rnom
36	配置文件设定 / Profile settings	rw	1	char	2	0x01 Bit 0: : : : 0x08 Bit 1 : 0x10 Bit 3: : Bit 4:		设置操作模式 / Set operation mode 00 = U/I/P 01 = U/I/R 10 = U/I (Models without P control / Models without P control) 11 = U/I/R (Models without P control / Models without P control) 内阻控制 / Internal resistance control 1=解锁 / unlocked 过温后的反应 / Reaction after overtemperature 0= OT Alarm disappear: OFF; 1= OT Alarm disappear: Auto ON 接通电源后的反应 / Reaction after power-on 0= Power ON: OFF , 1= Power ON = auto ON
38	OVP门限 / OVP threshold	rw	1	int	2			过压设定值（%的额定电压* 256）/ Overvoltage threshold (% of Unom*256)
39	U>门限+时间 / U> threshold +time	rw	1	int	4	Word 0: Word 1:		电压值（%的额定电压* 256）/ Voltage value (% of Unom*256) 时间 / Time (见时间值格式 / see format of time values)
40	U<门限+时间 / U< threshold +time	rw	1	int	4			
42	I>门限+时间 / I> threshold +time	rw	1	int	4	Word 0: Word 1:		电流值（%的额定电流* 256）/ Current value (% of Inom*256) 时间 / Time (见时间值格式 / see format of time values)
43	I<门限+时间 / I< threshold +time	rw	1	int	4			
44	监控U设定 / Supervise U settings	rw	1	char	2	0x03 Bit 1+2: U> 0x30 Bit 4+5: U<		00=无 / none; 01=仅显示 / indicate only 10=警告 / Warning; 11 =报警 / Alarm
45	监控I设定 / Supervise I settings	rw	1	char	2	0x03 Bit 1+2: I> 0x30 Bit 4+5: I<		00=无 / none; 01=仅显示 / indicate only 10=警告 / Warning; 11 =报警 / Alarm
46	监控步宽和设定 / Supervise step resp. settings	rw	1	char	2	0x03 Bit 1+2: 0x30 : Bit 4+5:		00=无 / none; 01=仅显示 / indicate only 10=警告 / Warning; 11 =报警 / Alarm 00=dU; 01=di
47	设定值-实际值的对比误差+时间 / Set-act. comparison tolerance + time	rw	1	int	6	Word 0: Word 1: Tsr Word 2: Tsf		误差（%的额定值* 256）/ Tolerance (% of nom.value*256) 时间 / Time (见时间值格式 / see format of time values) 时间 / Time (见时间值格式 / see format of time values)
50	U的设定值 / Set value for U	rw		int	2			设定电压（%的额定电压* 256）/ Set value of voltage (% of Unom*256) Uadjmin <= U <= Uadjmax
51	I 的设定值 / Set value for I	rw		int	2			设定电流（%的额定电流* 256）/ Set value of current (% of Inom*256) Iadjmin <= I <= Iadjmax
52	P 的设定值 / Set value for P	rw		int	2			设定功率（%的额定功率* 256）/ Set value of power (% of Pnom*256) Padjmin <= P <= Padjmax
53	R 的设定值 / Set value for R	rw	2	int	2			设定阻值（2 * %的Rnom * 256）/ Set value of resistance (2 * % of Rnom *256) Ri <= Radjmax
54	电源控制 / Power supply control	rw		char	2	0x01 Bit 0: 0x02 Bit 1: 0x10 Bit 4: 0x40 Bit 6:		1 = 电源输出开 / Power output on 1 = 确认报警和清除报警缓冲区 / Acknowledge alarms and flush alarm buffer 1 = 设为远程状态 / Switches to remote control 1 = 激活函数管理器 / Activate function manager
56	函数管理器的控制 / Control of function manager	rw	4	char	2	0x0F Bit 0: NEW Bit 1: STEP Bit 2: STOP Bit 3: RUN+GO		重设函数管理器为开始 / Reset fct. man. To start 执行下个序列点 / Proceed to the next seq. -point 暂停函数管理器 / Halt the function manager 启动函数管理器 /Start the function manager
58	函数的终止点 / Stop point of function	rw	4	int	4	Byte 0: Byte 1: Byte 2: Byte 3:		1 =激活终止点设定 / Set stop point active 函数重复x次后停止 / Stop after x repetitions of fct. 序列重复x次后停止 / Stop after x repetitions of seq. High nibble: 序列号 / Seq. no. ; Low nibble: 序列点 / Seq.point

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70	产品状态 / Device state	ro		int	2		Byte 0:	查询产品状态 / Query device state
							Bit 1+0:	00 =自由访问 / free access; 01= Remote; 10= External; 11=Local
							Bit 5:	1 = 由IF-Ax卡控制 / Controlled by IF-Ax
							Bit 6:	1 = 函数管理器激活 / Function manager active
							Bit 7:	1 = 菜单激活 / Menu active
							Byte 1:	
							Bit 0:	1 = 输出打开 / Output on
							Bit 2+1:	控制器状态 / Controller state: 00=CV; 01=CR; 10= CC; 11= CP
							Bit 3:	1 = 功率被减 / Power is reduced
							Bit 4:	1 = 报警激活 / Alarm active
							Bit 5:	1 = "Auto On" (状态解锁) / "Auto On" stage unlocked
							Bit 6:	1 = PV模式被激活 (仅针对PV型号) *** / PV mode enabled (PV models only)***
71	实际值 / Actual values	ro		int	6		Word 0:	实际电压 (%的额定电压* 256) / Actual voltage value (% of Unom * 256)
							Word 1:	实际电流 (%的额定电流* 256) / Actual current value (% of Inom * 256)
							Word 2:	实际功率 (%的额定功率* 256) / Actual power value (% of Pnom * 256)
72	瞬间设定值 / Momentary set values	ro		int	6		Word 0:	设定电压 (%的额定电压* 256) / Set value of voltage (% of Unom * 256)
							Word 1:	设定电流 (%的额定电流* 256) / Set value of current (% of Inom * 256)
							Word 2:	设定功率 (%的额定功率* 256) / Set value of power (% of Pnom * 256)
73	带时间标识，U+I的实际值 / Actual values U+I with time stamp	ro		int	6		Word 0:	电压值 (%的额定电压* 256) / Voltage value (% of Unom * 256)
							Word 1:	电流值 (%的额定电流* 256) / Current value (% of Inom * 256)
							Word 2:	运行函数总时间的后一部分 (2ms产品) / Lower part of the total time of running fct. (2ms steps) Range: 0···65535
74	函数控制状态 / State of function control	ro	4	char	2		Bit 0: NEW	函数流位于起始点 / Function flow is at the starting point
							Bit 1: STEP	直到下个点即开始执行 / Execute until next point
							Bit 2: STOP	函数流停止 / Function flow stopped
							Bit 3: RUN	函数管理器正在运行 / Function manager is running
75	执行函数状态 / State of the executed function	ro	4	int	6		Byte 0:	含对象74的值 / Contains value of object 74
							Byte 1:	重复当前函数 / Repetitions of current funtcion
							Byte 2:	重复当前序列 / Repetitions of current sequence
							Byte 3:	High nibble: 序列号 / Seq. no.; Low nibble: 序列点 / Seq. point
							Word 2:	运行函数总时间的后一部分 (ms) / Lower part of the total time of running fct. (ms)
77	产品通知 / Device notifications	ro		int	6		Byte 0:	最后的错误类型 / Last alarm type
							Byte 1:	最后的错误代码 / Last alarm code
							Byte 2:	2. 错误类型 / alarm type
							Byte 3:	2. 错误代码 / alarm code
							Byte 4:	1. 错误类型 / alarm type
							Byte 5:	1. 错误代码 / alarm code
								(请见用户手册 "Programming" 里的报警表 / see alarm table in user guide "Programming")
78	执行函数总需时 / Total time of executed fct.	ro	4	int	4			运行函数的总计时间以HH:MM:MS表示 / Total time of running fct. as HH:MM:MS
							Byte 0:	小时 / Hours (0..99)
							Byte 1:	分钟 / Minutes (0..59)
							Word 1:	毫秒 / Milliseconds (0..59999) **
90	存储功能	rw	1+5	char	2	0x02	Bit: 1	保存函数数据
91	设置函数 / Setup of function	rw	1+3	int	6		Byte 0:	
							Bit 0...2	1. 在函数管理器中处理的第1个序列(1 to 5) / 1st sequence (1 to 5) to process in fct.
							Bit 4...6	2. 在函数管理器中处理的第2个序列(1 to 5) / 2nd sequence (1 to 5) to process in fct.
							Byte 1:	
							Bit 0...2	3. 在函数管理器中处理的第3个序列(1 to 5) / 3rd sequence (1 to 5) to process in fct.
							Bit 4...6	4. 在函数管理器中处理的第4个序列(1 to 5) / 4th sequence (1 to 5) to process in fct.
							Byte 2:	
							Bit 0...2	5. 在函数管理器中处理的第5个序列(1 to 5) / 5th sequence (1 to 5) to process in fct.
							Bit 7	0= UIP Mode; 1= UIR Mode (仅在解锁后工作 / only if unlocked)
							Byte 3:	设为0 / set to 0
							Word 2:	重复函数 / Repetitions of the sequence
							(Bytes 4+5)	范围: 1..255; 255= 无穷大 / Range: 1..255;255=endless
92	设置第1列 / Setup of 1st sequence	rw	1+3	int	6		Word 0:	功率极限值 (%的额定功率* 256) / Power limit (% of Pnom *256)
93	设置第2列 / Setup of 2nd sequence	rw	1+3	int	6		Word 1:	阻值 (%的额定阻值* 256) / Resistance (% of Rnom *256)
94	设置第3列 / Setup of 3rd sequence	rw	1+3	int	6		Word 2:	序列重复次数 / Repetitions of sequence
95	设置第4列 / Setup of 4th sequence	rw	1+3	int	6			范围: 1..255; 255=无穷大 / Range: 1..255;255=endless
96	设置第5列 / Setup of 5th sequence	rw	1+3	int	6			
97	第1列的第1个序列点 / 1st seq. point of 1st sequence	rw	1+3	int	6		Word 0:	时间 / Time (见时间值格式 / see format of time values)
98	第1列的第2个序列点 / 2nd seq. point of 1st sequence	rw	1+3	int	6		Word 1:	电压值 (%的额定电压* 256) / Voltage value (% of Unom * 256)
99	第1列的第3个序列点 / 3rd seq. point of 1st sequence	rw	1+3	int	6		Word 2:	电流值 (%的额定电流* 256) / Current value (% of Inom * 256)

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100	第1列的第4个序列点 / 4th seq.point of 1st sequence	rw	1+3	int	6		Word 0:	时间 / Time（见时间值格式 / see format of time values)
101	第1列的第5个序列点 / 5th seq.point of 1st sequence	rw	1+3	int	6		Word 0:	时间 / Time（见时间值格式 / see format of time values)
102	第1列的第6个序列点 / 6th seq.point of 1st sequence	rw	1+3	int	6		Word 1:	电压值（%的额定电压* 256）/ Voltage value（% of Unom * 256)
103	第1列的第7个序列点 / 7th seq.point of 1st sequence	rw	1+3	int	6			
104	第1列的第8个序列点 / 8st seq.point of 1st sequence	rw	1+3	int	6			
105	第1列的第9个序列点 / 9th seq.point of 1st sequence	rw	1+3	int	6			
106	第1列的第10个序列点 / 10th seq.point of 1st sequence	rw	1+3	int	6			
107	第2列的第1个序列点 / 1st seq.point of 2nd sequence	rw	1+3	int	6			
108	第2列的第2个序列点 / 2nd seq.point of 2nd sequence	rw	1+3	int	6			
109	第2列的第3个序列点 / 3rd seq.point of 2nd sequence	rw	1+3	int	6			
110	第2列的第4个序列点 / 4th seq.point of 2nd sequence	rw	1+3	int	6			
111	第2列的第5个序列点 / 5th seq.point of 2nd sequence	rw	1+3	int	6			
112	第2列的第6个序列点 / 6th seq.point of 2nd sequence	rw	1+3	int	6			
113	第2列的第7个序列点 / 7th seq.point of 2nd sequence	rw	1+3	int	6			
114	第2列的第8个序列点 / 8th seq.point of 2nd sequence	rw	1+3	int	6			
115	第2列的第9个序列点 / 9th seq.point of 2nd sequence	rw	1+3	int	6			
116	第2列的第10个序列点 / 10th seq.point of 2nd sequence	rw	1+3	int	6			
117	第3列的第1个序列点 / 1st seq.point of 3rd sequence	rw	1+3	int	6			
118	第3列的第2个序列点 / 2nd seq.point of 3rd sequence	rw	1+3	int	6			
119	第3列的第3个序列点 / 3rd seq.point of 3rd sequence	rw	1+3	int	6			
120	第3列的第4个序列点 / 4th seq.point of 3rd sequence	rw	1+3	int	6			
121	第3列的第5个序列点 / 5th seq.point of 3rd sequence	rw	1+3	int	6			
122	第3列的第6个序列点 / 6th seq.point of 3rd sequence	rw	1+3	int	6			
123	第3列的第7个序列点 / 7th seq.point of 3rd sequence	rw	1+3	int	6			
124	第3列的第8个序列点 / 8th seq.point of 3rd sequence	rw	1+3	int	6			
125	第3列的第9个序列点 / 9th seq.point of 3rd sequence	rw	1+3	int	6			
126	第3列的第10个序列点 / 10th seq.point of 3rd sequence	rw	1+3	int	6			
127	第4列的第1个序列点 / 1st seq.point of 4th sequence	rw	1+3	int	6			
128	第4列的第2个序列点 / 2nd seq.point of 4th sequence	rw	1+3	int	6			
129	第4列的第3个序列点 / 3rd seq.point of 4th sequence	rw	1+3	int	6			
130	第4列的第4个序列点 / 4th seq.point of 4th sequence	rw	1+3	int	6			
131	第4列的第5个序列点 / 5th seq.point of 4th sequence	rw	1+3	int	6			
132	第4列的第6个序列点 / 6th seq.point of 4th sequence	rw	1+3	int	6			
133	第4列的第7个序列点 / 7th seq.point of 4th sequence	rw	1+3	int	6			
134	第4列的第8个序列点 / 8th seq.point of 4th sequence	rw	1+3	int	6			
135	第4列的第9个序列点 / 9th seq.point of 4th sequence	rw	1+3	int	6			
136	第4列的第10个序列点 / 10th seq.point of 4th sequence	rw	1+3	int	6			
137	第5列的第1个序列点 / 1st seq.point of 5th sequence	rw	1+3	int	6			
138	第5列的第2个序列点 / 2nd seq.point of 5th sequence	rw	1+3	int	6			
139	第5列的第3个序列点 / 3rd seq.point of 5th sequence	rw	1+3	int	6			
140	第5列的第4个序列点 / 4th seq.point of 5th sequence	rw	1+3	int	6			
141	第5列的第5个序列点 / 5th seq.point of 5th sequence	rw	1+3	int	6			
142	第5列的第6个序列点 / 6th seq.point of 5th sequence	rw	1+3	int	6			
143	第5列的第7个序列点 / 7th seq.point of 5th sequence	rw	1+3	int	6			
144	第5列的第8个序列点 / 8th seq.point of 5th sequence	rw	1+3	int	6			
145	第5列的第9个序列点 / 9th seq.point of 5th sequence	rw	1+3	int	6			
146	第5列的第10个序列点 / 10th seq.point of 5th sequence	rw	1+3	int	6			
190	以太网IP地址 / Ethernet IP	rw		int	4		Bytes 0 - 3:	IP地址（无小数点）/ IP address (without dots) *
191	以太网子网掩码 / Ethernet subnet mask	rw		int	4		Bytes 0 - 3:	子网掩码（无小数点）/ Subnet mask (without dots) *
192	以太网网关 / Ethernet Gateway	rw		int	4		Bytes 0 - 3:	网关地址（无小数点）/ Gateway address (without dots) *
193	Ethernet MAC地址 / Ethernet MAC address	ro		string	16			IF-E1卡的MAC地址以string表示/ MAC address of a IF-E1 card as string
194	Profibus地址 / Profibus address	ro		int	2			1…125

注解 / Legend:

ro =只读 / Read only
rw = 读和写 / Read and write
int = 16位数值 / value
char = 8位数值 / value
float = 32位浮点数 / Floating point number
string =以0x00为结尾的字符串 / String with 0x00 at the end
long = 32位数值 / value

带功率调节的产品型号 / Models with power adjustment

仅当选项解锁后 / only if option is unlocked

电流配置文件的一部分 / Part of current profile

与函数管理器有关 / Related to the function manager

* 举例：192.168.0.10 会生成 C0 A8 00 0A / Example: 192.168.0.10 results in C0 A8 00 0A
** 举例：返回参数为0x0007 0x21E6，表示这是在7分钟（0x0007）和 8678ms（0x21E6）内形成的，意思是 7m:8s,678ms
** Example: 0x0007 0x21E6 was returned, this results in 7 minutes (0x0007) and 8678ms (0x21E6), means 7m:8s, 678ms
*** 从C3.21固件版本开始 / From firmware version C3.21