V2.05						
Reg	Ident	r/w	Unit	Range	Description	
					EXTERNAL_CASCADE_CONTR 0	EXTERNAL_CASCADE_CONTR 1
1	VERSION	r/w		0..1	(0) V2.03 compatible (1) current	
2	AMBIENT TEMP	r	1/10°C		Ambient Temperature	
3	PLANT_MODE	r/w		0..2	(0) Off (1) Auto (2) Domestic Hot Water	
4						
5	FA_COUNT	r		1..4	Number of connected FA	
6	PU_COUNT	r		0..3	Number of connected Accu	
7						
8						
9						
10	ERROR 1	r			See error description*	
11	ERROR 1	r			See error description*	
12	ERROR 1	r			See error description*	
13	ERROR 1	r			See error description*	
14	ERROR 1	r			See error description*	
15	EXTERNAL_CASCADE_CONTR	r/w		0..1	(0) Oekofen Touch Controlled	(1) Modbus Controlled
16	CASCADE_SET	r/w	1/10°C	8°C .. 90°C	Cascade set temperature	no function
17	CASCADE_ON_TEMP	r	1/10°C		Cascade Sensor (R1 on FA)	Temp R1
18	CASCADE_OFF_TEMP	r	1/10°C		Cascade Sensor (R1/R2 on FA)	Temp R2
19						
20	FA_MODE 1	r/w		0..2	(0) Off (1) Auto (2) On	
21	FA_TEMP	r	1/10°C		Current boiler temperature	
22	FA_TEMP_SET	r/(w)	1/10°C	8°C .. 90°C	Set temp for boiler (r)	Set temp for boiler (r/w)
23	MODULATION	r	%	30% .. 100%	Modulation	
24	STATE	r		0 .. 99	Boilerstate*	
25	FA_REGEL_TEMP	r/w	1/10°C	28°C .. 85°C	Boiler default temperature	
26	FA_OFF_TEMP	r/w	1/10°C	35°C .. 90°C	Boiler switch off temperature	
27	FA_UW_TEMP_ON	r/w	1/10°C	20°C .. 90°C	Pump switch temperature	
28	FA_UW_POSTRUN	r/w	min	0 .. 50 min	Postrun of pump	

29	FA_UW_REG_RANGE	r/w	1/10°C	2K .. 15K	UW regulation range	
30	FA_UW_MIN_RPM	r/w	%	10% .. 70%	Lower speed limit of UW pump	
31	FA_RUNTIME	r	h		total burner runtime	
32	FA_STARTS	r			total burner starts	
33	FA_TYPE	r	kW	see boilertype	boilertype*	
34	FA_POWER	r/w		8 .. 56	current boiler power setting	
35	FA_ENERGY_HOLD	r		100 / -100	-100 if boilertemp > max temp / 100 if boilertemp < pump temp	
36	FA_MAINTENANCE	r/w		0 .. 1	Maintenance (0 restarts Maintenance Intervall)	
37	FA_MODE 2	r/w		0..2	(0) Off (1) Auto (2) On	
38	FA_TEMP	r	1/10°C		Current boiler temperature	
39	FA_TEMP_SET	r/(w)	1/10°C	8°C .. 90°C	Set temp for boiler (r)	Set temp for boiler (r/w)
40	MODULATION	r	%	30% .. 100%	Modulation	
41	STATE	r		0 .. 99	Boilerstate*	
42	FA_REGEL_TEMP	r/w	1/10°C	28°C .. 85°C	Boiler default temperature	
43	FA_OFF_TEMP	r/w	1/10°C	35°C .. 90°C	Boiler switch off temperature	
44	FA_UW_TEMP_ON	r/w	1/10°C	20°C .. 90°C	Pump switch temperature	
45	FA_UW_POSTRUN	r/w	min	0 .. 50 min	Postrun of pump	
46	FA_UW_REG_RANGE	r/w	1/10°C	2K .. 15K	UW regulation range	
47	FA_UW_MIN_RPM	r/w	%	10% .. 70%	Lower speed limit of UW pump	
48	FA_RUNTIME	r	h		total burner runtime	
49	FA_STARTS	r			total burner starts	
50	FA_TYPE	r	kW	see boilertype	boilertype*	
51	FA_POWER	r/w		8 .. 56	current boiler power setting	
52	FA_ENERGY_HOLD	r		100 / -100	-100 if boilertemp > max temp / 100 if boilertemp < pump temp	
53	FA_MAINTENANCE	r/w		0 .. 1	Maintenance (0 restarts Maintenance Intervall)	
54	FA_MODE 3	r/w		0..2	(0) Off (1) Auto (2) On	
55	FA_TEMP	r	1/10°C		Current boiler temperature	
56	FA_TEMP_SET	r/(w)	1/10°C	8°C .. 90°C	Set temp for boiler (r)	Set temp for boiler (r/w)
57	MODULATION	r	%	30% .. 100%	Modulation	
58	STATE	r		0 .. 99	Boilerstate*	
59	FA_REGEL_TEMP	r/w	1/10°C	28°C .. 85°C	Boiler default temperature	
60	FA_OFF_TEMP	r/w	1/10°C	35°C .. 90°C	Boiler switch off temperature	
61	FA_UW_TEMP_ON	r/w	1/10°C	20°C .. 90°C	Pump switch temperature	

62	FA_UW_POSTRUN	r/w	min	0 .. 50 min	Postrun of pump	
63	FA_UW_REG_RANGE	r/w	1/10°C	2K .. 15K	UW regulation range	
64	FA_UW_MIN_RPM	r/w	%	10% .. 70%	Lower speed limit of UW pump	
65	FA_RUNTIME	r	h	0	total burner runtime	
66	FA_STARTS	r			total burner starts	
67	FA_TYPE	r	kW	see boilertype	boilertype*	
68	FA_POWER	r/w		8 .. 56	current boiler power setting	
69	FA_ENERGY_HOLD	r		100 / -100	-100 if boilertemp > max temp / 100 if boilertemp < pump temp	
70	FA_MAINTENANCE	r/w		0 .. 1	Maintenance (0 restarts Maintenance Intervall)	
71	FA_MODE 4	r/w		0..2	(0) Off (1) Auto (2) On	
72	FA_TEMP	r	1/10°C		Current boiler temperature	
73	FA_TEMP_SET	r/(w)	1/10°C	8°C .. 90°C	Set temp for boiler (r)	Set temp for boiler (r/w)
74	MODULATION	r	%	30% .. 100%	Modulation	
75	STATE	r		0 .. 99	Boilerstate*	
76	FA_REGEL_TEMP	r/w	1/10°C	28°C .. 85°C	Boiler default temperature	
77	FA_OFF_TEMP	r/w	1/10°C	35°C .. 90°C	Boiler switch off temperature	
78	FA_UW_TEMP_ON	r/w	1/10°C	20°C .. 90°C	Pump switch temperature	
79	FA_UW_POSTRUN	r/w	min	0 .. 50 min	Postrun of pump	
80	FA_UW_REG_RANGE	r/w	1/10°C	2K .. 15K	UW regulation range	
81	FA_UW_MIN_RPM	r/w	%	10% .. 70%	Lower speed limit of UW pump	
82	FA_RUNTIME	r	h	0	total burner runtime	
83	FA_STARTS	r			total burner starts	
84	FA_TYPE	r	kW	see boilertype	boilertype*	
85	FA_POWER	r/w		8 .. 56	current boiler power setting	
86	FA_ENERGY_HOLD	r		100 / -100	-100 if boilertemp > max temp / 100 if boilertemp < pump temp	
87	FA_MAINTENANCE	r/w		0 .. 1	Maintenance (0 restarts Maintenance Intervall)	
88	PU_TPO_IST	r	1/10°C		current upper temp	no function
89	PU_TPM_IST	r	1/10°C		current middle temp	no function
90	PU_MINTEMP_ON	r/w	1/10°C	8 .. 90°C	min switch on temp	no function
91	PU_MINTEMP_OFF	r/w	1/10°C	8 .. 90°C	max switch off temp	no function
92	PU_PUMPTEMP	r/w	1/10°C	10 .. 80°C	pump switch on temp	no function
93	PU_HYSTERESIS	r/w	1/10°C	1 .. 10°C	pump regulation hyst.	no function
94	PU_POSTRUN	r/w	min	0 .. 50 min	post run time	no function

95						
96	PU_TPO_IST	r	1/10°C		current upper temp	no function
97	PU_TPM_IST	r	1/10°C		current middle temp	no function
98	PU_MINTEMP_ON	r/w	1/10°C	8 .. 90°C	min switch on temp	no function
99	PU_MINTEMP_OFF	r/w	1/10°C	8 .. 90°C	max switch off temp	no function
100	PU_PUMPTEMP	r/w	1/10°C	10 .. 80°C	pump switch on temp	no function
101	PU_HYSTERESIS	r/w	1/10°C	1 .. 10°C	pump regulation hyst.	no function
102	PU_POSTRUN	r/w	min	0 .. 50 min	post run time	no function
103						
104	PU_TPO_IST	r	1/10°C		current upper temp	no function
105	PU_TPM_IST	r	1/10°C		current middle temp	no function
106	PU_MINTEMP_ON	r/w	1/10°C	8 .. 90°C	min switch on temp	no function
107	PU_MINTEMP_OFF	r/w	1/10°C	8 .. 90°C	max switch off temp	no function
108	PU_PUMPTEMP	r/w	1/10°C	10 .. 80°C	pump switch on temp	no function
109	PU_HYSTERESIS	r/w	1/10°C	1 .. 10°C	pump regulation hyst.	no function
110	PU_POSTRUN	r/w	min	0 .. 50 min	post run time	no function
111						
112	ST_CURRENT	r	W		Current Stirling Power	
114	ST_TODAY	r	Wh		Todays Stirling Power	
115	ST_YESTERDAY	r	Wh		Yesterdays Stirling Power	
116	ST_STATE	r			Current state *	
117	ST_RUNTIME	r			Total Stirling Runtime	
118	ST_STARTS	r			Stirling starts	
119	ST_ERRORCODE	r			Errorcode	
120	ST_FORCE_POWER	r/w		0 .. 1	If set to 1 buffer will be loaded to force temp	
121	ST_FORCE_TEMP	r/w	1/10°C	40 .. 85 °C	set temperature of buffer if forced run	

*Boilerstate	
0	Permanent Op
1	Start
2	Ignition

3	Softstart
4	Heating Full Power
5	Run On Time
6	Off
7	Suction
8	Ash
9	Pellet
10	Pellet switch
11	Störung
12	Einmessen
13..99	Off

*Boilertype (UNSIGNED Integer)		Examples	
digit		61018	PEK2 10 .. 18 kW
1*	(0)PE, (1)PES, (2)PEK, (3)PESK, (4)SMART V1, (5)SMART V2, (6)PEK2	810	PE 8 .. 10 kW
2*,3	min Power in kW	1020	PE 10 .. 20 kW
4,5	max Power in kW	13356	PES 33 .. 56 kW

* if only 3,4 digits, boilertype = 0

Error description* (UNSIGNED Integer)		Examples	
digit		20040 (2004/0)	Short Circuit boiler 0
1,2,3,4	Errorcode (see error manual)	20041 (2004/1)	Short Circuit boiler 1
5	Index of Boiler/Accu starting at 0	50100 (5010/0)	FRT Sensor broken boiler 0

*Stirling state	
0	Off
1	Startup
2	Mains
3	Bypass
4	MainsClose
5	Operation
6	Overheating

7	Shutdown
8	Error

To decode unsigned integer simply add 65536 to negative values.

Important Note: Write cycles under 2h will reduce the life time of the internal flash memory.