POWER FACTOR CONTROLLER

RG-8BS / PFC8-96

REGISTER TABLE

NO	ADDRESS (HEX)	PARAMETER	FORMAT	MULTIPLIER	UNIT	FUNCTION
0	1000	PHASE VOLTAGE	unsigned long int	0.1	VOLT	READ
1						
2	1002	PHASE CURRENT	unsigned long int	0.001	AMPER	READ
3						
4	1004	PHASE ACTIVE POWER	long int	0.1	WATT	READ
5						
6	1006	PHASE REACTIVE POWER	long int	0.1	VAr	READ
7						
8	1008	PHASE APPARENT POWER	unsigned long int	0.1	VA	READ
9						
10	100A	PHASE COSφ	long int	0.001	-	READ
11						
12	100C	FREQUENCY	long int	0.01	HZ	READ
13						
14	100E	PHASE VOLTAGE VECTORIAL ANGLE	unsigned long int	0.1	DEGREE	READ
15						
16	1010	PHASE CURRENT VECTORIAL ANGLE	long int	0.1	DEGREE	READ
17						
18	1012	TEMPERATURE	long int	0.1	℃	READ
19						
20	1014	CAPACITOR STEP STATUS	long int	-	-	READ
21						
22	1016	ALARM STATUS	long int	-	-	READ/CLEAR
23						
24	1018	INDUCTIVE RATIO	long int	0.1	%	READ
25						
26	101A	CAPACITIVE RATIO	long int	0.1	%	READ
27						
28	101C	IMPORT ACTIVE ENERGY COUNTER	64 BIT HEX	1	WH	READ/CLEAR
29						
30						
31						
32	1020	EXPORT ACTIVE ENERGY COUNTER	64 BIT HEX	1	WH	READ/CLEAR
33						
34						
35						
36	1024	IMPORT REACTIVE ENERGY COUNTER	64 BIT HEX	1	VArH	READ/CLEAR
37						
38						
39						
40	1028	EXPORT REACTIVE ENERGY COUNTER	64 BIT HEX	1	VArH	READ/CLEAR
41						
42						
43						
44	102C	IMPORT ACTIVE ENERGY COUNTER (RATIO)	64 BIT HEX	1	WH	READ/CLEAR
45						
46						
47						
48	1030	EXPORT ACTIVE ENERGY COUNTER (RATIO)	64 BIT HEX	1	WH	READ/CLEAR
49						
50						
51						
52	1034	IMPORT REACTIVE ENERGY COUNTER (RATIO)	64 BIT HEX	1	VArH	READ/CLEAR
53						
54						
55						

REGISTER TABLE

NO	ADDRESS (HEX)	PARAMETER	FORMAT	MULTIPLIER	UNIT	FUNCTION
56	1038	EXPORT REACTIVE ENERGY COUNTER (RATIO)	64 BIT HEX	1	VArH	READ/CLEAR
57						
58						
59						
60	103C	PHASE VOLTAGE THD	unsigned int	0.1	%	READ
61	103D	PHASE VOLTAGE 3rd HAR.	unsigned int	0.1	%	READ
62	103E	PHASE VOLTAGE 5th HAR.	unsigned int	0.1	%	READ
63	103F	PHASE VOLTAGE 7th HAR.	unsigned int	0.1	%	READ
64	1040	PHASE VOLTAGE 9th HAR.	unsigned int	0.1	%	READ
65	1041	PHASE VOLTAGE 11th HAR.	unsigned int	0.1	%	READ
66	1042	PHASE VOLTAGE 13th HAR.	unsigned int	0.1	%	READ
67	1043	PHASE VOLTAGE 15th HAR.	unsigned int	0.1	%	READ
68	1044	PHASE VOLTAGE 17th HAR.	unsigned int	0.1	%	READ
69	1045	PHASE VOLTAGE 19th HAR.	unsigned int	0.1	%	READ
70	1046	PHASE CURRENT THD	unsigned int	0.1	%	READ
71	1047	PHASE CURRENT 3rd HAR.	unsigned int	0.1	%	READ
72	1048	PHASE CURRENT 5th HAR.	unsigned int	0.1	%	READ
73	1049	PHASE CURRENT 7th HAR.	unsigned int	0.1	%	READ
74	104A	PHASE CURRENT 9th HAR.	unsigned int	0.1	%	READ
75	104B	PHASE CURRENT 11st HAR.	unsigned int	0.1	%	READ
76	104C	PHASE CURRENT 13rd HAR.	unsigned int	0.1	%	READ
77	104D	PHASE CURRENT 15th HAR.	unsigned int	0.1	%	READ
78	104E	PHASE CURRENT 17th HAR.	unsigned int	0.1	%	READ
79	104F	PHASE CURRENT 19th HAR.	unsigned int	0.1	%	READ
80	8000	VOLTAGE TRANSFORMER RATIO	unsigned int	1	-	READ/WRITE
81	8001	CURRENT TRANSFORMER RATIO	unsigned int	1	-	READ/WRITE
82	8002		-	-	-	-
83	8003	TARGET COS1	int	0.001	-	READ/WRITE
84	8004	TARGET COS2	int	0.001	-	READ/WRITE
85	8005		-	-	-	-
86	8006	PROGRAM	unsigned int	0.1	-	READ/WRITE
87	8007	SWITCH ON TIME	unsigned int	0.1	SECOND	READ/WRITE
88	8008	SWITCH OFF TIME	unsigned int	0.1	SECOND	READ/WRITE
89	8009	CAPACITOR STEP DISCHARGE TIME	unsigned int	0.1	SECOND	READ/WRITE
90	800A	OVER VOLTAGE SET VALUE	unsigned int	0.1	VOLT	READ/WRITE
91	800B	OVER VOLTAGE DELAY	unsigned int	-	SECOND	READ/WRITE
92	800C	OVER VOLTAGE CAPACITOR STEP	unsigned int	0.1	-	READ/WRITE
93	800D	CAPACITIVE RATIO SET VALUE	unsigned int	0.1	%	READ/WRITE
94	800E	INDUCTIVE RATIO SET VALUE	unsigned int	0.1	%	READ/WRITE
95	800F	TEMPERATURE ALARM SET VALUE	unsigned int	0.1	°C	READ/WRITE
96	8010	TEMPERATURE ALARM END VALUE	unsigned int	0.1	°C	READ/WRITE
97	8011	TEMPERATURE ALARM STEP STATUS	unsigned int	-	-	READ/WRITE
98	8012	OVER THDV SET VALUE	unsigned int	0.1	%	READ/WRITE
99	8013	OVER THDV DELAY	unsigned int	0.1	SECOND	READ/WRITE
100	8014	OVER THDV CAPACITOR STEP STUATION	unsigned int	-	-	READ/WRITE
101	8015	MODBUS ADDRESS	unsigned int	-	-	READ/WRITE
102	8016	RS-485 BAUD RATE	unsigned int	-	-	READ/WRITE
103	8017	RS-485 PARITY	unsigned int	-	-	READ/WRITE
104	8018	PASSWORD ACTIVATION	unsigned int	-	-	READ/WRITE
105	8019	PASSWORD	hex	-	-	READ/WRITE
106	801A	IND. AND CAP. SWITCH ON TIME	unsigned int	1	HOUR	READ/WRITE
107	801B	CAPACITOR NOMINAL VOLTAGE VALUE	unsigned int	0.1	VOLT	READ/WRITE
108	801C	CONNECTION PHASOR ANGLE	unsigned int	1	DEGREE	READ/WRITE
109	801D	FAN START TEMPERATURE VALUE	unsigned int	0.1	°C	READ/WRITE
110	801E	FAN STOP TEMPERATURE VALUE	unsigned int	0.1	°C	READ/WRITE

REGISTER TABLE

NO	ADDRESS (HEX)	PARAMETER	FORMAT	MULTIPLIER	UNIT	FUNCTION
111	8080	1st CAPACITOR POWER	unsigned int	0.1	VAr	READ/WRITE
112	8081	2nd CAPACITOR POWER	unsigned int	0.1	VAr	READ/WRITE
113	8082	3rd CAPACITOR POWER	unsigned int	0.1	VAr	READ/WRITE
114	8083	4th CAPACITOR POWER	unsigned int	0.1	VAr	READ/WRITE
115	8084	5th CAPACITOR POWER	unsigned int	0.1	VAr	READ/WRITE
116	8085	6th CAPACITOR POWER	unsigned int	0.1	VAr	READ/WRITE
117	8086	7th CAPACITOR POWER	unsigned int	0.1	VAr	READ/WRITE
118	8087	8th CAPACITOR POWER	unsigned int	0.1	VAr	READ/WRITE
119	8088					
120	8089					
121	808A					
122	808B					
123	808C					
124	808D					
125	808E	1st CAPACITOR CONNECTION	unsigned int	-	-	READ/WRITE
126	808F	2nd CAPACITOR CONNECTION	unsigned int	-	-	READ/WRITE
127	8090	3rd CAPACITOR CONNECTION	unsigned int	-	-	READ/WRITE
128	8091	4th CAPACITOR CONNECTION	unsigned int	-	-	READ/WRITE
129	8092	5th CAPACITOR CONNECTION	unsigned int	-	-	READ/WRITE
130	8093	6th CAPACITOR CONNECTION	unsigned int	-	-	READ/WRITE
131	8094	7th CAPACITOR CONNECTION	unsigned int	-	-	READ/WRITE
132	8095	8th CAPACITOR CONNECTION	unsigned int	-	-	READ/WRITE
133	8096					
134	8097					
135	8098					
136	8099					
137	809A					
138	809B					
139	9000	1st CAPACITOR SWITCH ON&OFF	-	-	-	WRITE
140	9001	2nd CAPACITOR SWITCH ON&OFF	-	-	-	WRITE
141	9002	3rd CAPACITOR SWITCH ON&OFF	-	-	-	WRITE
142	9003	4th CAPACITOR SWITCH ON&OFF	-	-	-	WRITE
143	9004	5th CAPACITOR SWITCH ON&OFF	-	-	-	WRITE
144	9005	6th CAPACITOR SWITCH ON&OFF	-	-	-	WRITE
145	9006	7th CAPACITOR SWITCH ON&OFF	-	-	-	WRITE
146	9007	8th CAPACITOR SWITCH ON&OFF	-	-	-	WRITE
147	9008					
148	9009					
149	900A					
150	900B					
151	900C					
152	900D					
153	900E	AUTOMATIC / MANUAL SELECTION	-	-	-	WRITE
154	900F	AUTOMATIC SETUP	-	-	-	WRITE
155	9010	ALARM DELETE	-	-	-	WRITE
156	9011	ENERGY DELETE	-	-	-	WRITE
157	9012	RATIO DELETE	-	-	-	WRITE

BAUD RATE 1-5 :
1: 38400 bps
2: 19200 bps
3: 9600 bps
4: 4800 bps
5: 2400 bps

PARITY 0-2 :
0: No
1: Odd
2: Even

PASSWORD ACTIVATION 0-1 :
0: Disable
1: Enable

PHASE ANGLE

0 : 0°	6 : 180°
1 : 330°	7 : 150°
2 : 300°	8 : 120°
3 : 270°	9 : 90°
4 : 240°	10 : 60°
5 : 210°	11 : 30°