INPUT/OUTPUT POINT FOR CONTROL SYSTEM (BETONG BACKUP GENERATOR SYSTEM)

ANALOGE INPUT POINT

ITEM	POINT DESCRIPTIONS(UP TO 50 CHARS)	UNIT	SCALE		PANEL	TERMINAL CONECTION	POINT TYPE	DMS(DNP Mapping)					REMARK
			ACTUAL DATA	RAW DATA				Obj.	Var	Qii	Class	ADDRESS	
1	GEN 1 Oil Pressure	Kpa	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	1	GenComm Page 4
2	GEN 1 Coolant Temperature	oC	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	2	GenComm Page 4
3	GEN 1 Oil Temperature	oC	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	3	GenComm Page 4
4	GEN 1 Fuel Level	%	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	4	GenComm Page 4
5	GEN 1 Charge Alternator Voltage	V	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	5	GenComm Page 4
6	GEN 1 Engine Battery Voltage	V	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	6	GenComm Page 4
7	GEN 1 Engine Speed	RPM	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	7	GenComm Page 4
8	GEN 1 Current Phase A	A	0-32767	0-32767	CSCS	-	AI	32	2	17,28	Class 2	8	GenComm Page 4
9	GEN 1 Current Phase B	A	0-32767	0-32767	CSCS	-	AI	32	2	17,28	Class 2	9	GenComm Page 4
10	GEN 1 Current Phase C	A	0-32767	0-32767	CSCS	-	AI	32	2	17,28	Class 2	10	GenComm Page 4
11	GEN 1 Voltage Phase A-B	V	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	11	GenComm Page 4
12	GEN 1 Voltage Phase B-C	V	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	12	GenComm Page 4
13	GEN 1 Voltage Phase C-A	V	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	13	GenComm Page 4
14	GEN 1 Active Power P	W	-327.66 - 327.67	-32766 - 32767	CSCS	-	AI	32	2	17,28	Class 2	14	GenComm Page 6
15	GEN 1 Reactive Power Q	Var	-327.66 - 327.67	-32766 - 32767	CSCS	-	AI	32	2	17,28	Class 2	15	GenComm Page 6
16	GEN 1 Power Factor PF	%	-327.66 - 327.67	-32766 - 32767	CSCS	-	AI	32	2	17,28	Class 2	16	GenComm Page 6
17	GEN 1 Frequency	Hz	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	17	GenComm Page 4
18	GEN 2 Oil Pressure	Kpa	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	18	GenComm Page 4
19	GEN 2 Coolant Temperature	oC	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	19	GenComm Page 4
20	GEN 2 Oil Temperature	oC	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	20	GenComm Page 4
21	GEN 2 Fuel Level	%	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	21	GenComm Page 4
22	GEN 2 Charge Alternator Voltage	V	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	22	GenComm Page 4
23	GEN 2 Engine Battery Voltage	V	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	23	GenComm Page 4
24	GEN 2 Engine Speed	RPM	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	24	GenComm Page 4
25	GEN 2 Current Phase A	A	0-32767	0-32767	CSCS	-	AI	32	2	17,28	Class 2	25	GenComm Page 4
26	GEN 2 Current Phase B	A	0-32767	0-32767	CSCS	-	AI	32	2	17,28	Class 2	26	GenComm Page 4
27	GEN 2 Current Phase C	A	0-32767	0-32767	CSCS	-	AI	32	2	17,28	Class 2	27	GenComm Page 4
28	GEN 2 Voltage Phase A-B	V	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	28	GenComm Page 4
29	GEN 2 Voltage Phase B-C	V	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	29	GenComm Page 4
30	GEN 2 Voltage Phase C-A	V	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	30	GenComm Page 4
31	GEN 2 Active Power P	W	-327.66 - 327.67	-32766 - 32767	CSCS	-	AI	32	2	17,28	Class 2	31	GenComm Page 6
32	GEN 2 Reactive Power Q	Var	-327.66 - 327.67	-32766 - 32767	CSCS	-	AI	32	2	17,28	Class 2	32	GenComm Page 6
33	GEN 2 Power Factor PF	%	-327.66 - 327.67	-32766 - 32767	CSCS	-	AI	32	2	17,28	Class 2	33	GenComm Page 6
34	GEN 2 Frequency	Hz	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	34	GenComm Page 4
35	GEN 3 Oil Pressure	Kpa	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	35	GenComm Page 4
36	GEN 3 Coolant Temperature	oC	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	36	GenComm Page 4
37	GEN 3 Oil Temperature	oC	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	37	GenComm Page 4
38	GEN 3 Fuel Level	%	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	38	GenComm Page 4
39	GEN 3 Charge Alternator Voltage	V	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	39	GenComm Page 4
40	GEN 3 Engine Battery Voltage	V	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	40	GenComm Page 4
41	GEN 3 Engine Speed	RPM	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	41	GenComm Page 4
42	GEN 3 Current Phase A	A	0-32767	0-32767	CSCS	-	AI	32	2	17,28	Class 2	42	GenComm Page 4
43	GEN 3 Current Phase B	A	0-32767	0-32767	CSCS	-	AI	32	2	17,28	Class 2	43	GenComm Page 4
44	GEN 3 Current Phase C	A	0-32767	0-32767	CSCS	-	AI	32	2	17,28	Class 2	44	GenComm Page 4
45	GEN 3 Voltage Phase A-B	V	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	45	GenComm Page 4
46	GEN 3 Voltage Phase B-C	V	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	46	GenComm Page 4
47	GEN 3 Voltage Phase C-A	V	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	47	GenComm Page 4
48	GEN 3 Active Power P	W	-327.66 - 327.67	-32766 - 32767	CSCS	-	AI	32	2	17,28	Class 2	48	GenComm Page 6
49	GEN 3 Reactive Power Q	Var	-327.66 - 327.67	-32766 - 32767	CSCS	-	AI	32	2	17,28	Class 2	49	GenComm Page 6

50	GEN 3 Power Factor PF	%	-327.66 - 327.67	-32766 - 32767	CSCS	-	AI	32	2	17,28	Class 2	50	GenComm Page 6
51	GEN 3 Frequency	Hz	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	51	GenComm Page 4
52	GEN 4 Oil Pressure	Kpa	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	52	GenComm Page 4
53	GEN 4 Coolant Temperature	oC	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	53	GenComm Page 4
54	GEN 4 Oil Temperature	oC	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	54	GenComm Page 4
55	GEN 4 Fuel Level	%	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	55	GenComm Page 4
56	GEN 4 Charge Alternator Voltage	V	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	56	GenComm Page 4
57	GEN 4 Engine Battery Voltage	V	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	57	GenComm Page 4
58	GEN 4 Engine Speed	RPM	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	58	GenComm Page 4
59	GEN 4 Current Phase A	A	0-32767	0-32767	CSCS	-	AI	32	2	17,28	Class 2	59	GenComm Page 4
60	GEN 4 Current Phase B	A	0-32767	0-32767	CSCS	-	AI	32	2	17,28	Class 2	60	GenComm Page 4
61	GEN 4 Current Phase C	A	0-32767	0-32767	CSCS	-	AI	32	2	17,28	Class 2	61	GenComm Page 4
62	GEN 4 Voltage Phase A-B	V	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	62	GenComm Page 4
63	GEN 4 Voltage Phase B-C	V	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	63	GenComm Page 4
64	GEN 4 Voltage Phase C-A	V	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	64	GenComm Page 4
65	GEN 4 Active Power P	W	-327.66 - 327.67	-32766 - 32767	CSCS	-	AI	32	2	17,28	Class 2	65	GenComm Page 6
66	GEN 4 Reactive Power Q	Var	-327.66 - 327.67	-32766 - 32767	CSCS	-	AI	32	2	17,28	Class 2	66	GenComm Page 6
67	GEN 4 Power Factor PF	%	-327.66 - 327.67	-32766 - 32767	CSCS	-	AI	32	2	17,28	Class 2	67	GenComm Page 6
68	GEN 4 Frequency	Hz	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	68	GenComm Page 4
69	GEN 5 Oil Pressure	Kpa	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	69	GenComm Page 4
70	GEN 5 Coolant Temperature	oC	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	70	GenComm Page 4
71	GEN 5 Oil Temperature	oC	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	71	GenComm Page 4
72	GEN 5 Fuel Level	%	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	72	GenComm Page 4
73	GEN 5 Charge Alternator Voltage	V	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	73	GenComm Page 4
74	GEN 5 Engine Battery Voltage	V	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	74	GenComm Page 4
75	GEN 5 Engine Speed	RPM	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	75	GenComm Page 4
76	GEN 5 Current Phase A	A	0-32767	0-32767	CSCS	-	AI	32	2	17,28	Class 2	76	GenComm Page 4
77	GEN 5 Current Phase B	A	0-32767	0-32767	CSCS	-	AI	32	2	17,28	Class 2	77	GenComm Page 4
78	GEN 5 Current Phase C	A	0-32767	0-32767	CSCS	-	AI	32	2	17,28	Class 2	78	GenComm Page 4
79	GEN 5 Voltage Phase A-B	V	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	79	GenComm Page 4
80	GEN 5 Voltage Phase B-C	V	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	80	GenComm Page 4
81	GEN 5 Voltage Phase C-A	V	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	81	GenComm Page 4
82	GEN 5 Active Power P	W	-327.66 - 327.67	-32766 - 32767	CSCS	-	AI	32	2	17,28	Class 2	82	GenComm Page 6
83	GEN 5 Reactive Power Q	Var	-327.66 - 327.67	-32766 - 32767	CSCS	-	AI	32	2	17,28	Class 2	83	GenComm Page 6
84	GEN 5 Power Factor PF	%	-327.66 - 327.67	-32766 - 32767	CSCS	-	AI	32	2	17,28	Class 2	84	GenComm Page 6
85	GEN 5 Frequency	Hz	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	85	GenComm Page 4
86	GEN 6 Oil Pressure	Kpa	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	86	GenComm Page 4
87	GEN 6 Coolant Temperature	oC	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	87	GenComm Page 4
88	GEN 6 Oil Temperature	oC	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	88	GenComm Page 4
89	GEN 6 Fuel Level	%	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	89	GenComm Page 4
90	GEN 6 Charge Alternator Voltage	V	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	90	GenComm Page 4
91	GEN 6 Engine Battery Voltage	V	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	91	GenComm Page 4
92	GEN 6 Engine Speed	RPM	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	92	GenComm Page 4
93	GEN 6 Current Phase A	A	0-32767	0-32767	CSCS	-	AI	32	2	17,28	Class 2	93	GenComm Page 4
94	GEN 6 Current Phase B	A	0-32767	0-32767	CSCS	-	AI	32	2	17,28	Class 2	94	GenComm Page 4
95	GEN 6 Current Phase C	A	0-32767	0-32767	CSCS	-	AI	32	2	17,28	Class 2	95	GenComm Page 4
96	GEN 6 Voltage Phase A-B	V	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	96	GenComm Page 4
97	GEN 6 Voltage Phase B-C	V	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	97	GenComm Page 4
98	GEN 6 Voltage Phase C-A	V	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	98	GenComm Page 4
99	GEN 6 Active Power P	W	-327.66 - 327.67	-32766 - 32767	CSCS	-	AI	32	2	17,28	Class 2	99	GenComm Page 6
100	GEN 6 Reactive Power Q	Var	-327.66 - 327.67	-32766 - 32767	CSCS	-	AI	32	2	17,28	Class 2	100	GenComm Page 6
101	GEN 6 Power Factor PF	%	-327.66 - 327.67	-32766 - 32767	CSCS	-	AI	32	2	17,28	Class 2	101	GenComm Page 6
102	GEN 6 Frequency	Hz	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	102	GenComm Page 4
103	GEN 7 Oil Pressure	Kpa	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	103	GenComm Page 4

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104	GEN 7 Coolant Temperature	oC	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	104	GenComm Page 4
105	GEN 7 Oil Temperature	oC	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	105	GenComm Page 4
106	GEN 7 Fuel Level	%	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	106	GenComm Page 4
107	GEN 7 Charge Alternator Voltage	V	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	107	GenComm Page 4
108	GEN 7 Engine Battery Voltage	V	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	108	GenComm Page 4
109	GEN 7 Engine Speed	RPM	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	109	GenComm Page 4
110	GEN 7 Current Phase A	A	0-32767	0-32767	CSCS	-	AI	32	2	17,28	Class 2	110	GenComm Page 4
111	GEN 7 Current Phase B	A	0-32767	0-32767	CSCS	-	AI	32	2	17,28	Class 2	111	GenComm Page 4
112	GEN 7 Current Phase C	A	0-32767	0-32767	CSCS	-	AI	32	2	17,28	Class 2	112	GenComm Page 4
113	GEN 7 Voltage Phase A-B	V	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	113	GenComm Page 4
114	GEN 7 Voltage Phase B-C	V	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	114	GenComm Page 4
115	GEN 7 Voltage Phase C-A	V	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	115	GenComm Page 4
116	GEN 7 Active Power P	W	-327.66 - 327.67	-32766 - 32767	CSCS	-	AI	32	2	17,28	Class 2	116	GenComm Page 4
117	GEN 7 Reactive Power Q	Var	-327.66 - 327.67	-32766 - 32767	CSCS	-	AI	32	2	17,28	Class 2	117	GenComm Page 4
118	GEN 7 Power Factor PF	%	-327.66 - 327.67	-32766 - 32767	CSCS	-	AI	32	2	17,28	Class 2	118	GenComm Page 4
119	GEN 7 Frequency	Hz	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	119	GenComm Page 4
120	MAIN BUS Voltage Phase A-B	V	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	120	GenComm Page 4
121	MAIN BUS Voltage Phase B-C	V	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	121	GenComm Page 4
122	MAIN BUS Voltage Phase C-A	V	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	122	GenComm Page 4
123	MAIN BUS Frequency	Hz	0-3276.7	0-32767	CSCS	-	AI	32	2	17,28	Class 2	123	GenComm Page 4

STATUS INPUT POINT

ITEM	POINT DESCRIPTIONS(UP TO 50 CHARS)	DESCRIPTION	STATE				PANEL	TERMINAL CONECTION	POINT TYPE	DMS(DNP Mapping)					REMARK
			0	1	2	3				Obj.	Var	Qii	Class	ADDRESS	
1	GENERATOR MASTER CONTROL STATUS	STOP	UNDEFINED	STOP	START	FAULT	CSCS	XXX	SOE	2	2	17,28	Class 1	1	
		START					CSCS	XXX	SOE	2	2	17,28	Class 1	2	
2	GENERATOR MASTER CONTROL MODE	MANUAL	UNDEFINED	MANUAL	AUTO	FAULT	CSCS	XXX	SOE	2	2	17,28	Class 1	3	
		AUTO					CSCS	XXX	SOE	2	2	17,28	Class 1	4	
3	GEN 1 CIRCUIT BREAKER STATUS	OPEN/CLOSED	OPEN	CLOSED	-	-	CSCS	-	DI	2	1	17,28	Class 1	5	GenComm Page XXX
4	GEN 1 CONTROL ON	REMOTE/LOCAL	REMOTE	LOCAL	-	-	CSCS	-	DI	2	1	17,28	Class 1	6	GenComm Page XXX
5	GEN 1 CONTROL MODE	MANUAL/AUTO	MANUAL	AUTO	-	-	CSCS	-	DI	2	1	17,28	Class 1	7	GenComm Page XXX
6	GEN 1 STATUS	STOP/START	STOP	START	-	-	CSCS	-	DI	2	1	17,28	Class 1	8	GenComm Page XXX
7	GEN 1 EMERGENCY STOP	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	9	GenComm Page 8
8	GEN 1 LOW OIL PRESSURE	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	10	GenComm Page 8
9	GEN 1 HIGH COOLANT TEMPERATURE	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	11	GenComm Page 8
10	GEN 1 HiGH OIL TEMPERATURE	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	12	GenComm Page 8
11	GEN 1 UNDER SPEED	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	13	GenComm Page 8
12	GEN 1 OVER SPEED	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	14	GenComm Page 8
13	GEN 1 FAIL TO START	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	15	GenComm Page 8
14	GEN 1 FAIL TO COME TO REST	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	16	GenComm Page 8
15	GEN 1 LOSS OF SPEED SENSING	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	17	GenComm Page 8
16	GEN 1 LOW VOLTAGE	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	18	GenComm Page 8
17	GEN 1 HIGH VOLTAGE	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	19	GenComm Page 8
18	GEN 1 LOW FREQUENCY	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	20	GenComm Page 8
19	GEN 1 HIGH FREQUENCY	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	21	GenComm Page 8
20	GEN 1 HIGH CURRENT	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	22	GenComm Page 8
21	GEN 1 EARTH FAULT	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	23	GenComm Page 8
22	GEN 1 REVERSE POWER	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	24	GenComm Page 8
23	GEN 2 CIRCUIT BREAKER STATUS	OPEN/CLOSED	OPEN	CLOSED	-	-	CSCS	-	DI	2	1	17,28	Class 1	25	GenComm Page XXX
24	GEN 2 CONTROL ON	REMOTE/LOCAL	REMOTE	LOCAL	-	-	CSCS	-	DI	2	1	17,28	Class 1	26	GenComm Page XXX
25	GEN 2 CONTROL MODE	MANUAL/AUTO	MANUAL	AUTO	-	-	CSCS	-	DI	2	1	17,28	Class 1	27	GenComm Page XXX
26	GEN 2 STATUS	STOP/START	STOP	START	-	-	CSCS	-	DI	2	1	17,28	Class 1	28	GenComm Page XXX
27	GEN 2 EMERGENCY STOP	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	29	GenComm Page 8
28	GEN 2 LOW OIL PRESSURE	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	30	GenComm Page 8

29	GEN 2 HIGH COOLANT TEMPERATURE	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	31	GenComm Page 8
30	GEN 2 HiGH OIL TEMPERATURE	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	32	GenComm Page 8
31	GEN 2 UNDER SPEED	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	33	GenComm Page 8
32	GEN 2 OVER SPEED	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	34	GenComm Page 8
33	GEN 2 FAIL TO START	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	35	GenComm Page 8
34	GEN 2 FAIL TO COME TO REST	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	36	GenComm Page 8
35	GEN 2 LOSS OF SPEED SENSING	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	37	GenComm Page 8
36	GEN 2 LOW VOLTAGE	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	38	GenComm Page 8
37	GEN 2 HIGH VOLTAGE	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	39	GenComm Page 8
38	GEN 2 LOW FREQUENCY	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	40	GenComm Page 8
39	GEN 2 HIGH FREQUENCY	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	41	GenComm Page 8
40	GEN 2 HIGH CURRENT	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	42	GenComm Page 8
41	GEN 2 EARTH FAULT	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	43	GenComm Page 8
42	GEN 2 REVERSE POWER	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	44	GenComm Page 8
43	GEN 3 CIRCUIT BREAKER STATUS	OPEN/CLOSED	OPEN	CLOSED	-	-	CSCS	-	DI	2	1	17,28	Class 1	45	GenComm Page XXX
44	GEN 3 CONTROL ON	REMOTE/LOCAL	REMOTE	LOCAL	-	-	CSCS	-	DI	2	1	17,28	Class 1	46	GenComm Page XXX
45	GEN 3 CONTROL MODE	MANUAL/AUTO	MANUAL	AUTO	-	-	CSCS	-	DI	2	1	17,28	Class 1	47	GenComm Page XXX
46	GEN 3 STATUS	STOP/START	STOP	START	-	-	CSCS	-	DI	2	1	17,28	Class 1	48	GenComm Page XXX
47	GEN 3 EMERGENCY STOP	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	49	GenComm Page 8
48	GEN 3 LOW OIL PRESSURE	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	50	GenComm Page 8
49	GEN 3 HIGH COOLANT TEMPERATURE	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	51	GenComm Page 8
50	GEN 3 HiGH OIL TEMPERATURE	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	52	GenComm Page 8
51	GEN 3 UNDER SPEED	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	53	GenComm Page 8
52	GEN 3 OVER SPEED	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	54	GenComm Page 8
53	GEN 3 FAIL TO START	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	55	GenComm Page 8
54	GEN 3 FAIL TO COME TO REST	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	56	GenComm Page 8
55	GEN 3 LOSS OF SPEED SENSING	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	57	GenComm Page 8
56	GEN 3 LOW VOLTAGE	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	58	GenComm Page 8
57	GEN 3 HIGH VOLTAGE	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	59	GenComm Page 8
58	GEN 3 LOW FREQUENCY	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	60	GenComm Page 8
59	GEN 3 HIGH FREQUENCY	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	61	GenComm Page 8
60	GEN 3 HIGH CURRENT	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	62	GenComm Page 8
61	GEN 3 EARTH FAULT	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	63	GenComm Page 8
62	GEN 3 REVERSE POWER	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	64	GenComm Page 8
63	GEN 4 CIRCUIT BREAKER STATUS	OPEN/CLOSED	OPEN	CLOSED	-	-	CSCS	-	DI	2	1	17,28	Class 1	65	GenComm Page XXX
64	GEN 4 CONTROL ON	REMOTE/LOCAL	REMOTE	LOCAL	-	-	CSCS	-	DI	2	1	17,28	Class 1	66	GenComm Page XXX
65	GEN 4 CONTROL MODE	MANUAL/AUTO	MANUAL	AUTO	-	-	CSCS	-	DI	2	1	17,28	Class 1	67	GenComm Page XXX
66	GEN 4 STATUS	STOP/START	STOP	START	-	-	CSCS	-	DI	2	1	17,28	Class 1	68	GenComm Page XXX
67	GEN 4 EMERGENCY STOP	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	69	GenComm Page 8
68	GEN 4 LOW OIL PRESSURE	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	70	GenComm Page 8
69	GEN 4 HIGH COOLANT TEMPERATURE	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	71	GenComm Page 8
70	GEN 4 HiGH OIL TEMPERATURE	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	72	GenComm Page 8
71	GEN 4 UNDER SPEED	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	73	GenComm Page 8
72	GEN 4 OVER SPEED	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	74	GenComm Page 8
73	GEN 4 FAIL TO START	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	75	GenComm Page 8
74	GEN 4 FAIL TO COME TO REST	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	76	GenComm Page 8
75	GEN 4 LOSS OF SPEED SENSING	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	77	GenComm Page 8
76	GEN 4 LOW VOLTAGE	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	78	GenComm Page 8
77	GEN 4 HIGH VOLTAGE	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	79	GenComm Page 8
78	GEN 4 LOW FREQUENCY	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	80	GenComm Page 8
79	GEN 4 HIGH FREQUENCY	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	81	GenComm Page 8
80	GEN 4 HIGH CURRENT	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	82	GenComm Page 8
81	GEN 4 EARTH FAULT	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	83	GenComm Page 8
82	GEN 4 REVERSE POWER	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	84	GenComm Page 8
83	GEN 5 CIRCUIT BREAKER STATUS	OPEN/CLOSED	OPEN	CLOSED	-	-	CSCS	-	DI	2	1	17,28	Class 1	85	GenComm Page XXX

84	GEN 5 CONTROL ON	REMOTE/LOCAL	REMOTE	LOCAL	-	-	CSCS	-	DI	2	1	17,28	Class 1	86	GenComm Page XXX
85	GEN 5 CONTROL MODE	MANUAL/AUTO	MANUAL	AUTO	-	-	CSCS	-	DI	2	1	17,28	Class 1	87	GenComm Page XXX
86	GEN 5 STATUS	STOP/START	STOP	START	-	-	CSCS	-	DI	2	1	17,28	Class 1	88	GenComm Page XXX
87	GEN 5 EMERGENCY STOP	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	89	GenComm Page 8
88	GEN 5 LOW OIL PRESSURE	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	90	GenComm Page 8
89	GEN 5 HIGH COOLANT TEMPERATURE	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	91	GenComm Page 8
90	GEN 5 HiGH OIL TEMPERATURE	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	92	GenComm Page 8
91	GEN 5 UNDER SPEED	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	93	GenComm Page 8
92	GEN 5 OVER SPEED	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	94	GenComm Page 8
93	GEN 5 FAIL TO START	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	95	GenComm Page 8
94	GEN 5 FAIL TO COME TO REST	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	96	GenComm Page 8
95	GEN 5 LOSS OF SPEED SENSING	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	97	GenComm Page 8
96	GEN 5 LOW VOLTAGE	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	98	GenComm Page 8
97	GEN 5 HIGH VOLTAGE	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	99	GenComm Page 8
98	GEN 5 LOW FREQUENCY	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	100	GenComm Page 8
99	GEN 5 HIGH FREQUENCY	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	101	GenComm Page 8
100	GEN 5 HIGH CURRENT	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	102	GenComm Page 8
101	GEN 5 EARTH FAULT	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	103	GenComm Page 8
102	GEN 5 REVERSE POWER	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	104	GenComm Page 8
103	GEN 6 CIRCUIT BREAKER STATUS	OPEN/CLOSED	OPEN	CLOSED	-	-	CSCS	-	DI	2	1	17,28	Class 1	105	GenComm Page XXX
104	GEN 6 CONTROL ON	REMOTE/LOCAL	REMOTE	LOCAL	-	-	CSCS	-	DI	2	1	17,28	Class 1	106	GenComm Page XXX
105	GEN 6 CONTROL MODE	MANUAL/AUTO	MANUAL	AUTO	-	-	CSCS	-	DI	2	1	17,28	Class 1	107	GenComm Page XXX
106	GEN 6 STATUS	STOP/START	STOP	START	-	-	CSCS	-	DI	2	1	17,28	Class 1	108	GenComm Page XXX
107	GEN 6 EMERGENCY STOP	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	109	GenComm Page 8
108	GEN 6 LOW OIL PRESSURE	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	110	GenComm Page 8
109	GEN 6 HIGH COOLANT TEMPERATURE	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	111	GenComm Page 8
110	GEN 6 HiGH OIL TEMPERATURE	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	112	GenComm Page 8
111	GEN 6 UNDER SPEED	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	113	GenComm Page 8
112	GEN 6 OVER SPEED	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	114	GenComm Page 8
113	GEN 6 FAIL TO START	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	115	GenComm Page 8
114	GEN 6 FAIL TO COME TO REST	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	116	GenComm Page 8
115	GEN 6 LOSS OF SPEED SENSING	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	117	GenComm Page 8
116	GEN 6 LOW VOLTAGE	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	118	GenComm Page 8
117	GEN 6 HIGH VOLTAGE	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	119	GenComm Page 8
118	GEN 6 LOW FREQUENCY	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	120	GenComm Page 8
119	GEN 6 HIGH FREQUENCY	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	121	GenComm Page 8
120	GEN 6 HIGH CURRENT	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	122	GenComm Page 8
121	GEN 6 EARTH FAULT	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	123	GenComm Page 8
122	GEN 6 REVERSE POWER	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	124	GenComm Page 8
123	GEN 7 CIRCUIT BREAKER STATUS	OPEN/CLOSED	OPEN	CLOSED	-	-	CSCS	-	DI	2	1	17,28	Class 1	125	GenComm Page XXX
124	GEN 7 CONTROL ON	REMOTE/LOCAL	REMOTE	LOCAL	-	-	CSCS	-	DI	2	1	17,28	Class 1	126	GenComm Page XXX
125	GEN 7 CONTROL MODE	MANUAL/AUTO	MANUAL	AUTO	-	-	CSCS	-	DI	2	1	17,28	Class 1	127	GenComm Page XXX
126	GEN 7 STATUS	STOP/START	STOP	START	-	-	CSCS	-	DI	2	1	17,28	Class 1	128	GenComm Page XXX
127	GEN 7 EMERGENCY STOP	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	129	GenComm Page 8
128	GEN 7 LOW OIL PRESSURE	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	130	GenComm Page 8
129	GEN 7 HIGH COOLANT TEMPERATURE	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	131	GenComm Page 8
130	GEN 7 HiGH OIL TEMPERATURE	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	132	GenComm Page 8
131	GEN 7 UNDER SPEED	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	133	GenComm Page 8
132	GEN 7 OVER SPEED	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	134	GenComm Page 8
133	GEN 7 FAIL TO START	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	135	GenComm Page 8
134	GEN 7 FAIL TO COME TO REST	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	136	GenComm Page 8
135	GEN 7 LOSS OF SPEED SENSING	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	137	GenComm Page 8
136	GEN 7 LOW VOLTAGE	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	138	GenComm Page 8
137	GEN 7 HIGH VOLTAGE	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	139	GenComm Page 8
138	GEN 7 LOW FREQUENCY	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	140	GenComm Page 8
139	GEN 7 HIGH FREQUENCY	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	141	GenComm Page 8

140	GEN 7 HIGH CURRENT	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	142	GenComm Page 8
141	GEN 7 EARTH FAULT	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	143	GenComm Page 8
142	GEN 7 REVERSE POWER	NORMAL/ALARM	NORMAL	ALARM	-	-	CSCS	-	DI	2	1	17,28	Class 1	144	GenComm Page 8

CONTROL OUTPUT POINT

ITEM	POINT DESCRIPTIONS(UP TO 50 CHARS)	DESCRIPTION	STATE		PANEL	TERMINAL CONECTION	POINT TYPE	DMS(DNP Mapping)					REMARK
			1	2				Obj.	Var	Qii	Class	ADDRESS	
1	GENERATOR MASTER CONTROL COMMAND	START	START		CSCS	XXX	SBO	12	1	ECHO OF REQUEST	-	1	
		STOP		STOP									
2	GENERATOR MASTER MODE COMMAND	AUTO	AUTO		CSCS	XXX	SBO	12	1	ECHO OF REQUEST	-	2	
		MANUAL		MANUAL									
3	GENERATOR POWER CONTROL COMMAND	RAISE	RAISE		CSCS	XXX	SBO	12	1	ECHO OF REQUEST	-	3	No Feed Back Control
		LOWER		LOWER									

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