

11.7 Analog output/Monitor output function

Option No.	Communication No.		Function	Display unit	Unit (Communication)
	Analog output	Monitor output			
0	FD00	FE00	Output frequency	0.1Hz	0.01Hz
1	FD02	FE02	Frequency command value	0.1Hz	0.01Hz
2	FD03	FE03	Output current	1%/<F701> setting	0.01%
3	FD04	FE04	Input voltage (DC detection)	1%/<F701> setting	0.01%
4	FD05	FE05	Output voltage	1%/<F701> setting	0.01%
5	FD15	FE15	Stator frequency	0.1Hz	0.01Hz
6	FD16	FE16	Speed feedback frequency (real time)	0.1Hz	0.01Hz
7	FD17	FE17	Speed feedback frequency (1-second filter)	0.1Hz	0.01Hz
8	FD18	FE18	Torque	1%	0.01%
9	FD19	FE19	Torque command	1%	0.01%
10	FD99	FE99	Output frequency during run. Frequency command value during stop.	Hz/free unit	-
11	FD20	FE20	Torque current	1%	0.01%
12	FD21	FE21	Exciting current	1%	0.01%
13	FD22	FE22	PID feedback value	0.1Hz	0.01Hz
14	FD23	FE23	Motor overload factor (OL2 data)	1%	0.01%
15	FD24	FE24	Inverter overload factor (OL1 data)	1%	0.01%
16	FD25	FE25	Braking resistor overload factor (OLr data)	1%	1%
17	FD28	FE28	Braking resistor load factor (%ED)	1%	1%
18	DF29	FE29	Input power	0.1kW	0.01kW
19	FD30	FE30	Output power	0.1kW	0.01kW
20	FE76	FE76	Input cumulative power	<F749> setting	<F749> setting
21	FE77	FE77	Output cumulative power	<F749> setting	<F749> setting
22			Fixed output 1	-	-
23			Fixed output 2	-	-
24	FE35	FE35	Terminal RR input value	1%	0.01%
25	FE36	FE36	Terminal RX input value	1%	0.01%
26	FE37	FE37	Terminal II input value	1%	0.01%
27	FD94	FE94	Motor speed command *4	1	1
28	FE40	FE40	Terminal FM output value *1	1	0.01
29	FE41	FE41	Terminal AM output value *2	1	0.01
31	FA51	FA51	Communication data output	*3	*3
32		FE66	Slot A option CPU version	-	-
33		FE67	Slot B option CPU version	-	-
34	FD26	FE26	Motor load factor	%	-
35	FD27	FE27	Inverter load factor	%	-
36		FE70	Inverter rated current	A	-
37		FD70	Inverter rated current (with carrier frequency correction)	A	-

Option No.	Communication No.		Function	Display unit	Unit (Communication)
	Analog output	Monitor output			
38		FD81	Actual carrier frequency	kHz	-
39		FE68	Slot C option CPU version	-	-
40		FE91	Embedded Ethernet CPU version	-	-
41	FD43	FD43	Terminal FP pulse train output value	pps	-
43		FM/F671	Terminal FM/AM gain setting value	-	-
44	FE38	FE38	Terminal AI4 input value	1%	0.01%
45	FE39	FE39	Terminal AI5 input value	1%	0.01%
46	FE60	FE60	My function monitor output 1	-	-
47	FE61	FE61	My function monitor output 2	-	-
48	FE62	FE62	My function monitor output 3	-	-
49	FE63	FE63	My function monitor output 4	-	-
62	FD48	FE48	PID result frequency	0.1Hz	0.01Hz
63	FD58	FE58	PID set value	0.1Hz	0.01Hz
64	FD50	FD50	Light-load high-speed switching load torque	1%	0.01%
65	FD51	FD51	Light-load high-speed torque during constant speed run	1%	0.01%
66		FE31	Pattern operation group number	0.1	0.1
67		FE32	Pattern operation remaining cycle number	1	1
68		FE33	Pattern operation preset speed number	1	1
69		FE34	Pattern operation remaining time	0.1	0.1
70		FE71	Inverter rated voltage	1	0.1
71	FD90	FE90	Motor speed (estimated value) *4	1	1
72		FA15	Communication option Receiving counter	1	1
73		FA16	Communication option Abnormal counter	1	1
76	FE56	FE56	Terminal S4/S5 pulse train input value	0.001	0.0001
77		FD85	My function COUNT1	1	1
78		FD86	My function COUNT2	1	1
79	FD87	FD87	Dancer control PID result frequency	0.1Hz	0.01Hz
80		FA25	Embedded Ethernet Transmission counter	1	1
81		FA17	Embedded Ethernet Receiving counter	1	1
82		FA18	Embedded Ethernet Abnormal counter	1	1
83		FE81	Connected option number	1	1
84		FD91	My function COUNT3	1	1
85		FD92	My function COUNT4	1	1
86		FD93	My function COUNT5	1	1
90		FE80	Cumulative power ON time	100 hours	-
91		FD41	Cumulative cooling fan run time	100 hours	-
92		FD14	Cumulative run time	100 hours	-
93		FD31	Cumulative overcurrent time	-	-
95		E960	Pump 0 run time	100 hours	-
96		E961	Pump 1 run time	100 hours	-
97		E962	Pump 2 run time	100 hours	-

Option No.	Communication No.		Function	Display unit	Unit (Communication)
	Analog output	Monitor output			
98		E963	Pump 3 run time	100 hours	-
99		E964	Pump 4 run time	100 hours	-
100		FD32	Number of starting	10000 times	-
101		FD33	Number of Fwd starting	10000 times	-
102		FD34	Number of Rev starting	10000 times	-
103		FE59	External equipment counter	Times	-
105		E965	Pump 5 run time	100 hours	-
106		E966	Pump 6 run time	100 hours	-
107		E967	Pump 7 run time	100 hours	-
108		E968	Pump 8 run time	100 hours	-
109		E969	Pump 9 run time	100 hours	-
110		FD35	Number of trip	Times	-
111		FD36	Number of serious failure trip	Times	-
112		FD37	Number of slight failure trip	Times	-
113		FD38	Number of specified trip 1	Times	-
114		FD39	Number of specified trip 2	Times	-
115		FD40	Number of specified trip 3	Times	-
120	FD83	FE83	Internal temperature 1	-	-
124	FE78	FE78	Power circuit board temperature	-	-
130	FD96	FD96	External PID3 set value	-	-
131	FD97	FD97	External PID3 feedback value	-	-
132	FD98	FD98	External PID3 result value	-	-
133	FE96	FE96	External PID4 set value	-	-
134	FE97	FE97	External PID4 feedback value	-	-
135	FE98	FE98	External PID4 result value	-	-
150	FD00 *5	FE00	Signed output frequency	0.1Hz	0.01Hz
151	FD02 *5	FE02	Signed frequency command value	0.1Hz	0.01Hz
152	FD15 *5	FE15	Signed stator frequency	0.1Hz	0.01Hz
153	FD16 *5	FE16	Signed speed feedback frequency (real time)	0.1Hz	0.01Hz
154	FD17 *5	FE17	Signed speed feedback frequency (1-second filter)	0.1Hz	0.01Hz
155	FD18	FE18	Signed torque	1%	0.01%
156	FD19	FE19	Signed torque command	1%	0.01%
158	FD20	FE20	Signed torque current	1%	0.01%
159	FD22 *5	FE22	Signed PID feedback value	0.1Hz	0.01Hz
160	FE37	FE37	Signed terminal RX input value	1%	0.01%
161	FE38	FE38	Signed terminal AI4 input value	1%	0.01%
162	FE39	FE39	Signed terminal AI5 input value	1%	0.01%

*1 Disabled with <FMSL: Terminal FM function>.

*2 Disabled with <F670: Terminal AM function>.

*3 For details, refer to RS485 Communication Function Instruction Manual (Exxxxxx).

*4 Monitor is limited from -32700 to 32700.

*5 FD00(FE00), FD02(FE02), FD15(FE15), FD16(FE16), FD17(FE17), FD22(EF22) are unsigned value.
Internal polarity is used for signed analog output or monitor.