

# BacNET Points Firmware 3.90 and above



## MCA109 FC-102 ADVANCED BACNET OPTION

Object ID	Object Name	Read / Write
AI:0	analog_input: 0 (Analog Input 53)	Read
AI:1	analog_input: 1 (Analog Input 54)	Read
AI:2	analog_input: 2 (Analog Input X30/11)	Read
AI:3	analog_input: 3 (Analog Input X30/12)	Read
AI:4	analog_input: 4 (Analog Input X42/1)	Read
AI:5	analog_input: 5 (Analog Input X42/3)	Read
AI:6	analog_input: 6 (Analog Input X42/5)	Read
AO:0	analog_output: 0 (Terminal 42 Output Bus Control)	W/R
AO:1	analog_output: 1 (Pulse out #27 Bus Control)	W/R
AO:2	analog_output: 2 (Pulse out #29 Bus Control)	W/R
AO:3	analog_output: 3 (Analogue Out X30/8 [mA])	W/R
AO:4	analog_output: 4 (Analogue Out X42/7 [V])	W/R
AO:5	analog_output: 5 (Analogue Out X42/9 [V])	W/R
AO:6	analog_output: 6 (Analogue Out X42/11 [V])	W/R
AV:0	analog_value: 0 (Reference)	W/R
AV:1	analog_value: 1 (Speed Act Value)	W/R
AV:2	analog_value: 2 (Bus Feedback1)	W/R
AV:3	analog_value: 3 (Bus Feedback2)	W/R
AV:4	analog_value: 4 (Bus Feedback3)	W/R
AV:5	analog_value: 5 (Motor Voltage)	Read
AV:6	analog_value: 6 (Motor Current)	Read
AV:7	analog_value: 7 (Torque [%])	Read
AV:8	analog_value: 8 (DC Link Voltage)	Read
AV:9	analog_value: 9 (Motor Thermal)	Read
AV:10	analog_value: 10 (Heatsink Temp.)	Read
AV:11	analog_value: 11 (Inverter Thermal)	Read
AV:12	analog_value: 12 (Operating Hours)	Read
AV:13	analog_value: 13 (Running Hours)	Read
AV:14	analog_value: 14 (KWh Counter)	Read
AV:15	analog_value: 15 (Power [KW])	Read
AV:16	analog_value: 16 (PID Start Speed [Hz])	W/R
AV:17	analog_value: 17 (PID Proportional Gain)	W/R
AV:18	analog_value: 18 (PID Integral Time)	W/R
AV:19	analog_value: 19 (PID Differential Time)	W/R
AV:20	analog_value: 20 (PID Dif. Gain Limit)	W/R
AV:21	analog_value: 21 (On Reference Bandwidth)	W/R
AV:22	analog_value: 22 (Ext. 1 Setpoint)	W/R

## FC-102 EMBEDDED BACNET

Object ID	Object Name	Read / Write
AI:0	analog_input: 0 (Analog Input 53)	Read
AI:1	analog_input: 1 (Analog Input 54)	Read
AI:2	analog_input: 2 (Analog Input X30/11)	Read
AI:3	analog_input: 3 (Analog Input X30/12)	Read
AI:4	analog_input: 4 (Analog Input X42/1)	Read
AI:5	analog_input: 5 (Analog Input X42/3)	Read
AI:6	analog_input: 6 (Analog Input X42/5)	Read
AO:0	analog_output: 0 (Terminal 42 Output Bus Control)	W/R
AO:1	analog_output: 1 (Pulse out #27 Bus Control)	W/R
AO:2	analog_output: 2 (Pulse out #29 Bus Control)	W/R
AO:3	analog_output: 3 (Analogue Out X30/8 [mA])	W/R
AO:4	analog_output: 4 (Analogue Out X42/7 [V])	W/R
AO:5	analog_output: 5 (Analogue Out X42/9 [V])	W/R
AO:6	analog_output: 6 (Analogue Out X42/11 [V])	W/R
AV:0	Reserved	Read
AV:1	analog_value: 1 (Input Reference 1)	W/R
AV:2	analog_value: 2 (Input Reference 2)	W/R
AV:3	analog_value: 3 (Output Speed)	Read
AV:4	analog_value: 4 (PID Feedback)	Read
AV:5	analog_value: 5 (Motor Current)	Read
AV:6	analog_value: 6 (Power)	Read
AV:7	Reserved	Read
AV:8	Reserved	Read
AV:9	Reserved	Read
AV:10	Reserved	Read
AV:11	Reserved	Read
AV:12	Reserved	Read
AV:13	Reserved	Read
AV:14	Reserved	Read
AV:15	analog_value: 15 (Motor Thermal)	Read
AV:16	Reserved	Read
AV:17	Reserved	Read
AV:18	Reserved	Read
AV:19	Reserved	Read
AV:20	Reserved	Read
AV:21	analog_value: 21 (Operating Hours)	Read
AV:22	analog_value: 22 (Running Hours)	Read

## MCA109 FC-102 ADVANCED BACNET OPTION (cont.)

Object ID	Object Name	Read / Write
AV:23	analog_value: 23 (Ext. 1 Reference [Unit])	W/R
AV:24	analog_value: 24 (Ext. 1 Feedback [Unit])	W/R
AV:25	analog_value: 25 (Ext. 1 Propotional Gain)	W/R
AV:26	Reserved	W/R
AV:27	analog_value: 27 (Ext. 1 Integral Time)	W/R
AV:28	analog_value: 28 (Ext. 1 Differential Time)	W/R
AV:29	analog_value: 29 (Ext. 1 Dif. Gain Limit)	W/R
AV:30	Reserved	W/R
AV:31	analog_value: 31 (Ext. 2 Setpoint)	W/R
AV:32	analog_value: 32 (Ext. 2 reference [Unit])	W/R
AV:33	analog_value: 33 (Ext. 2 Feedback [Unit])	W/R
AV:34	analog_value: 34 (Ext. 2 Proportional Gain)	W/R
AV:35	analog_value: 35 (Ext. 2 Integral Time)	W/R
AV:36	analog_value: 36 (Ext. 2 Differential Time)	W/R
AV:37	analog_value: 37 (Ext. 2 Dif. Gain)	W/R
AV:38	analog_value: 38 (Ext. 3 Setpoint)	W/R
AV:39	analog_value: 39 (Ext. 3 Reference [Unit])	W/R
AV:40	analog_value: 40 (Ext. 3 Feedback [Unit])	W/R
AV:41	analog_value: 41 (Ext. 3 Proportional Gain)	W/R
AV:42	analog_value: 42 (Ext. 3 Integral Time)	W/R
AV:43	analog_value: 43 (Ext. 3 Differential Time)	W/R
AV:44	analog_value: 44 (Ext. 3 Dif. Gain Limit)	W/R
AV:45	analog_value: 45 (Running Bypass)	Read
AV:46	analog_value: 46 (Setpoint 1)	Write
AV:47	analog_value: 47 (Setpoint 2)	Write
AV:48	analog_value: 48 (Setpoint 3)	Write
AV:49	Reserved	Read
AV:50	analog_value: 50 (Frequency)	Read
AV:51	analog_value: 51 (Feedback [Unit])	Read
AV:52	Reserved	Read
AV:53	Reserved	Read
AV:54	Reserved	Read
AV:55	Reserved	Read
AV:56	Reserved	Read
AV:57	Reserved	Read
AV:58	analog_value: 58 (Sensorless Readout)	Read
BI:0	binary_input: 0 (Digital input 33)	Read
BI:1	binary_input: 1 (Digital input 32)	Read
BI:2	binary_input: 2 (Digital input 29)	Read
BI:3	binary_input: 3 (Digital input 27)	Read
BI:4	binary_input: 4 (Digital input 19)	Read
BI:5	binary_input: 5 (Digital input 18)	Read
BI:6	binary_input: 6 (Digital input 37)	Read
BI:7	binary_input: 7 (Digital Input X30/2)	Read
BI:8	binary_input: 8 (Digital Input X30/3)	Read
BI:9	binary_input: 9 (Digital Input X30/4)	Read

## FC-102 EMBEDDED BACNET (cont.)

Object ID	Object Name	Read / Write
AV:23	analog_value: 23 (kWh Counter)	Read
AV:24	analog_value: 24 (Motor Voltage)	Read
AV:25	analog_value: 25 (Frequency)	Read
AV:26	analog_value: 26 (Torque)	Read
AV:27	analog_value: 27 (DC Link Voltage)	Read
AV:28	analog_value: 28 (Heatsink Temp.)	Read
AV:29	analog_value: 29 (Inverter Thermal)	Read
AV:30	analog_value: 30 (Setpoint 1)	W/R
AV:31	analog_value: 31 (Bus Feedback 1)	W/R
AV:32	Reserved	Read
AV:33	Reserved	Read
AV:34	Reserved	Read
AV:35	analog_value: 35 (Setpoint 2)	W/R
AV:36	analog_value: 36 (Bus Feedback 2)	W/R
AV:37	Reserved	Read
AV:38	Reserved	Read
AV:39	Reserved	Read
AV:40	analog_value: 40 (Setpoint 3)	W/R
AV:41	analog_value: 41 (Bus Feedback 3)	W/R
AV:42	Reserved	Read
AV:43	Reserved	Read
AV:44	Reserved	Read
AV:45	analog_value: 45 (Running Bypass)	Read
AV:46	Reserved	Read
AV:47	Reserved	Read
AV:48	Reserved	Read
AV:49	Reserved	Read
AV:50	analog_value: 50 (Last Alarm)	Read
AV:51	analog_value: 51 (Fault Code)	Read
AV:52	analog_value: 52 (PID Start Speed)	W/R
AV:53	analog_value: 53 (On Reference Bandwidth)	W/R
AV:54	analog_value: 54 (PID Proportional Gain)	W/R
AV:55	analog_value: 55 (PID Integral Time)	W/R
AV:56	analog_value: 56 (PID Differentiation Time)	W/R
AV:57	analog_value: 57 (PID Diff. Gain Limit)	W/R
AV:58	analog_value: 58 (Sensorless Readout)	Read
BI:0	binary_input: 0 (Digital input Term 33)	Read
BI:1	binary_input: 1 (Digital input Term 32)	Read
BI:2	binary_input: 2 (Digital input Term 29)	Read
BI:3	binary_input: 3 (Digital input Term 27)	Read
BI:4	binary_input: 4 (Digital input Term 19)	Read
BI:5	binary_input: 5 (Digital input Term 18)	Read
BI:6	binary_input: 6 (Digital input Term 37)	Read
BI:7	binary_input: 7 (Digital Input X30/2)	Read
BI:8	binary_input: 8 (Digital Input X30/3)	Read
BI:9	binary_input: 9 (Digital Input X30/4)	Read

## MCA109 FC-102 ADVANCED BACNET OPTION (cont.)

Object ID	Object Name	Read / Write
Bl:10	binary_input: 10 (Digital input P1660/10)	Read
Bl:11	binary_input: 11 (Digital input P1660/11)	Read
Bl:12	binary_input: 12 (Digital input P1660/12)	Read
Bl:13	binary_input: 13 (Digital input P1660/13)	Read
Bl:14	binary_input: 14 (Digital input P1660/14)	Read
Bl:15	binary_input: 15 (Digital input P1660/15)	Read
BO:0	binary_output: 0 (Digital output 27)	W/R
BO:1	binary_output: 1 (Digital output 29)	W/R
BO:2	binary_output: 2 (GPIO Output Term X30/6)	W/R
BO:3	binary_output: 3 (GPIO Output Term X30/7)	W/R
BO:4	binary_output: 4 (Relay 1 output)	W/R
BO:5	binary_output: 5 (Relay 2 output)	W/R
BO:6	binary_output: 6 (Option B Relay 1 Output)	W/R
BO:7	binary_output: 7 (Option B Relay 2 Output)	W/R
BO:8	binary_output: 8 (Option B Relay 3 Output)	W/R
BO:9	binary_output: 9 (Reserved output P590/09)	W/R
BO:10	binary_output: 10 (Reserved output P590/10)	W/R
BO:11	binary_output: 11 (Reserved output P590/11)	W/R
BO:12	binary_output: 12 (Reserved output P590/12)	W/R
BO:13	binary_output: 13 (Reserved output P590/13)	W/R
BO:14	binary_output: 14 (Reserved output P590/14)	W/R
BO:15	binary_output: 15 (Reserved output P590/15)	W/R
BO:16	binary_output: 16 (Option C Relay 1 Output)	W/R
BO:17	binary_output: 17 (Option C Relay 2 Output)	W/R
BO:18	binary_output: 18 (Option C Relay 3 Output)	W/R
BO:19	binary_output: 19 (Option C Relay 4 Output)	W/R
BO:20	binary_output: 20 (Option C Relay 5 Output)	W/R
BO:21	binary_output: 21 (Option C Relay 6 Output)	W/R
BO:22	binary_output: 22 (Option C Relay 7 Output)	W/R
BO:23	binary_output: 23 (Option C Relay 8 Output)	W/R
BO:24	binary_output: 24 (Reserved output P590/24)	W/R
BO:25	binary_output: 25 (Reserved output P590/25)	W/R
BO:26	binary_output: 26 (Reserved output P590/26)	W/R
BO:27	binary_output: 27 (Reserved output P590/27)	W/R
BO:28	binary_output: 28 (Reserved output P590/28)	W/R
BO:29	binary_output: 29 (Reserved output P590/29)	W/R
BO:30	binary_output: 30 (Reserved output P590/30)	W/R
BV:0	binary_value: 0 (Com. Fault)	Read
BV:1	binary_value: 1 (Start)	W/R
BV:2	binary_value: 2 (Coasting)	W/R
BV:3	binary_value: 3 (CW/CCW)	W/R
BV:4	binary_value: 4 (Jog)	W/R
BV:5	binary_value: 5 (Reset)	Write
BV:6	binary_value: 6 (Reset kWh Counter)	Write
BV:7	binary_value: 7 (Reset Running Hour Counter)	Write
BV:10	binary_value: 10 (Drive Ready)	Read

## FC-102 EMBEDDED BACNET (cont.)

Object ID	Object Name	Read / Write
Bl:10	binary_input: 10 (Digital input P1660/10)	Read
Bl:11	binary_input: 11 (Digital input P1660/11)	Read
Bl:12	binary_input: 12 (Digital input P1660/12)	Read
Bl:13	binary_input: 13 (Digital input P1660/13)	Read
Bl:14	binary_input: 14 (Digital input P1660/14)	Read
Bl:15	binary_input: 15 (Digital input P1660/15)	Read
BO:0	binary_output: 0 (Digital Output Term 27)	W/R
BO:1	binary_output: 1 (Digital Output Term 29)	W/R
BO:2	binary_output: 2 (GPIO Output Term X30/6)	W/R
BO:3	binary_output: 3 (GPIO Output Term X30/7)	W/R
BO:4	binary_output: 4 (Relay 1)	W/R
BO:5	binary_output: 5 (Relay 2)	W/R
BO:6	binary_output: 6 (Option B Relay 1 Output)	W/R
BO:7	binary_output: 7 (Option B Relay 2 Output)	W/R
BO:8	binary_output: 8 (Option B Relay 3 Output)	W/R
BO:9	binary_output: 9 (Reserved output P590/09)	W/R
BO:10	binary_output: 10 (Reserved output P590/10)	W/R
BO:11	binary_output: 11 (Reserved output P590/11)	W/R
BO:12	binary_output: 12 (Reserved output P590/12)	W/R
BO:13	binary_output: 13 (Reserved output P590/13)	W/R
BO:14	binary_output: 14 (Reserved output P590/14)	W/R
BO:15	binary_output: 15 (Reserved output P590/15)	W/R
BO:16	binary_output: 16 (Option C Relay 1 Output)	W/R
BO:17	binary_output: 17 (Option C Relay 2 Output)	W/R
BO:18	binary_output: 18 (Option C Relay 3 Output)	W/R
BO:19	binary_output: 19 (Option C Relay 4 Output)	W/R
BO:20	binary_output: 20 (Option C Relay 5 Output)	W/R
BO:21	binary_output: 21 (Option C Relay 6 Output)	W/R
BO:22	binary_output: 22 (Option C Relay 7 Output)	W/R
BO:23	binary_output: 23 (Option C Relay 8 Output)	W/R
BO:24	binary_output: 24 (Reserved output P590/24)	W/R
BO:25	binary_output: 25 (Reserved output P590/25)	W/R
BO:26	binary_output: 26 (Reserved output P590/26)	W/R
BO:27	binary_output: 27 (Reserved output P590/27)	W/R
BO:28	binary_output: 28 (Reserved output P590/28)	W/R
BO:29	binary_output: 29 (Reserved output P590/29)	W/R
BO:30	binary_output: 30 (Reserved output P590/30)	W/R
BV:0	Reserved	Read
BV:1	binary_value: 1 (RUN/STOP Command)	W/R
BV:2	binary_value: 2 (REF 1/REF 2 Select)	W/R
BV:3	binary_value: 3 (Fault Reset Command)	Write
BV:4	binary_value: 4 (RUN/STOP Monitor)	Read
BV:5	binary_value: 5 (OK/FAULT Monitor)	Read
BV:6	binary_value: 6 (HAND / AUTO Reference)	Read
BV:7	Reserved	Read
BV:10	Reserved	Read

## MCA109 FC-102 ADVANCED BACNET OPTION (cont.)

Object ID	Object Name	Read / Write
BV:12	binary_value: 12 (Speed = reference)	Read
BV:13	binary_value: 13 (Bus control)	Read
BV:14	binary_value: 14 (Trip)	Read
BV:15	binary_value: 15 (Trip Lock)	Read
BV:16	binary_value: 16 (Motor running)	Read
BV:17	binary_value: 17 (Warning)	Read
BV:18	Reserved	Read
BV:19	Reserved	Read
BV:20	Reserved	Read
BV:21	binary_value: 21 (ECB Test Mode)	Read
BV:22	binary_value: 22 (ECB Drivemode)	Read
BV:23	binary_value: 23 (ECB Aut. Bypass Enable)	Read
BV:24	binary_value: 24 (ECB Bypass Mode)	Read
BV:25	binary_value: 25 (ECB State)	Read
BV:26	binary_value: 26 (ECB Overload Trip)	Read
BV:27	binary_value: 27 (M2 Fault)	Read
BV:28	binary_value: 28 (M3 Fault)	Read
BV:29	binary_value: 29 (ECB External Interlock)	Read
BV:30	binary_value: 30 (ECB Manual Override)	Read
BV:31	Reserved	Read
BV:32	Reserved	Read
BV:33	Reserved	Read
BV:34	Reserved	Read
BV:35	Reserved	Read
BV:36	Reserved	Read
BV:37	Reserved	Read
BV:38	Reserved	Read
BV:39	Reserved	Read
BV:40	binary_value: 40 (A: Brake check)	Read
BV:41	binary_value: 41 (A: Pwr. Card Temp)	Read
BV:42	binary_value: 42 (A: Earth Fault)	Read
BV:43	binary_value: 43 (A: Ctrl.Card Temp)	Read
BV:44	binary_value: 44 (A: Ctrl. Word TO)	Read
BV:45	binary_value: 45 (A: Over Current)	Read
BV:46	binary_value: 46 (A: Torque Limit)	Read
BV:47	binary_value: 47 (A: Motor TH Over)	Read
BV:48	binary_value: 48 (A: Motor ETR Over)	Read
BV:49	binary_value: 49 (A: Inverter Overld.)	Read
BV:50	binary_value: 50 (A: DC under Volt)	Read
BV:51	binary_value: 51 (A: DC over Volt)	Read
BV:52	binary_value: 52 (A: Short Circuit)	Read
BV:53	binary_value: 53 (A: Inrush Fault)	Read
BV:54	binary_value: 54 (A: Mains Fault)	Read
BV:55	binary_value: 55 (A: AMA Not OK)	Read
BV:56	binary_value: 56 (A: Live Zero Error)	Read
BV:57	binary_value: 57 (A: Internal Fault)	Read

## FC-102 EMBEDDED BACNET (cont.)

Object ID	Object Name	Read / Write
BV:12	Reserved	Read
BV:13	Reserved	Read
BV:14	Reserved	Read
BV:15	Reserved	Read
BV:16	Reserved	Read
BV:17	Reserved	Read
BV:18	Reserved	Read
BV:19	Reserved	Read
BV:20	Reserved	Read
BV:21	binary_value: 21 (Warning)	Read
BV:22	binary_value: 22 (Trip)	Read
BV:23	binary_value: 23 (Triplock)	Read
BV:24	binary_value: 24 (Coasting)	W/R
BV:25	binary_value: 25 (CW/CCW)	W/R
BV:26	binary_value: 26 (Jog)	W/R
BV:27	binary_value: 27 (Reset)	W/R
BV:28	binary_value: 28 (Reset KWh Counter)	Write
BV:29	binary_value: 29 (Reset Running Hours Counter)	Write
BV:30	binary_value: 30 (Reverse)	Read
BV:31	binary_value: 31 (Speed = reference)	Read
BV:32	binary_value: 32 (Bus Control)	Read
BV:33	binary_value: 33 (Running)	Read
BV:34	binary_value: 34 (Ramp 1/Ramp 2)	Read
BV:35	binary_value: 35 (ECB Test Mode)	Read
BV:36	binary_value: 36 (ECB Drivemode)	Read
BV:37	binary_value: 37 (ECB Aut. Bypass Enable)	Read
BV:38	binary_value: 38 (ECB Bypass Mode)	Read
BV:39	Reserved	Read
BV:40	binary_value: 40 (ECB State)	Read
BV:41	binary_value: 41 (ECB Overload Trip)	Read
BV:42	binary_value: 42 (M2 Fault)	Read
BV:43	binary_value: 43 (M3 Fault)	Read
BV:44	binary_value: 44 (ECB External Interlock)	Read
BV:45	binary_value: 45 (ECB Manual Override)	Read
BV:46	NA	NA
BV:47	NA	NA
BV:48	NA	NA
BV:49	NA	NA
BV:50	NA	NA
BV:51	NA	NA
BV:52	NA	NA
BV:53	NA	NA
BV:54	NA	NA
BV:55	NA	NA
BV:56	NA	NA
BV:57	NA	NA

## MCA109 FC-102 ADVANCED BACNET OPTION (cont.)

Object ID	Object Name	Read / Write
BV:58	binary_value: 58 (A: Brake Overload)	Read
BV:59	binary_value: 59 (A: U Phase Loss)	Read
BV:60	binary_value: 60 (A: V Phase Loss)	Read
BV:61	binary_value: 61 (A: W Phase Loss)	Read
BV:62	binary_value: 62 (A: Fieldbus Fault)	Read
BV:63	binary_value: 63 (A: 24 V Supply Low)	Read
BV:64	binary_value: 64 (A: Mains fault)	Read
BV:65	binary_value: 65 (A: 1.8V supply low)	Read
BV:66	binary_value: 66 (A: Brake Failure)	Read
BV:67	binary_value: 67 (A: Brake IGBT)	Read
BV:68	binary_value: 68 (A: Option Changed)	Read
BV:69	binary_value: 69 (A: Drive Initialised)	Read
BV:70	binary_value: 70 (A: Safe Stop)	Read
BV:71	binary_value: 71 (A: Alarm: Brake low)	Read
BV:72	binary_value: 72 (A: Service trip 1691/0)	Read
BV:73	binary_value: 73 (A: Service trip 1691/1)	Read
BV:74	binary_value: 74 (A: Service trip 1691/2)	Read
BV:75	binary_value: 75 (A: Service trip 1691/3)	Read
BV:76	binary_value: 76 (A: Service trip 1691/4)	Read
BV:77	binary_value: 77 (A: No flow)	Read
BV:78	binary_value: 78 (A: Dry Pump)	Read
BV:79	binary_value: 79 (A: Curve end)	Read
BV:80	binary_value: 80 (A: Broken Belt)	Read
BV:81	binary_value: 81 (A: Discharge High)	Read
BV:82	binary_value: 82 (A: Start fault)	Read
BV:83	binary_value: 83 (A: Speed limit)	Read
BV:84	binary_value: 84 (A: State fault 1691/12)	Read
BV:85	binary_value: 85 (A: State fault 1691/13)	Read
BV:86	binary_value: 86 (A: State fault 1691/14)	Read
BV:87	binary_value: 87 (A: State fault 1691/15)	Read
BV:88	binary_value: 88 (A: KTY Temparture error)	Read
BV:89	binary_value: 89 (A: Drive Fan error)	Read
BV:90	binary_value: 90 (A: ECB error)	Read
BV:91	binary_value: 91 (A: Alarm 1691/19)	Read
BV:92	binary_value: 92 (A: Alarm 1691/20)	Read
BV:93	binary_value: 93 (A: Alarm 1691/21)	Read
BV:94	binary_value: 94 (A: Alarm 1691/22)	Read
BV:95	binary_value: 95 (A: Alarm 1691/23)	Read
BV:96	binary_value: 96 (A: Alarm 1691/24)	Read
BV:97	binary_value: 97 (A: Alarm 1691/25)	Read
BV:98	binary_value: 98 (A: Alarm 1691/26)	Read
BV:99	binary_value: 99 (A: Alarm P1691/27)	Read
BV:100	binary_value: 100 (A: Alarm 1691/28)	Read
BV:101	binary_value: 101 (A: Alarm 1691/29)	Read
BV:102	binary_value: 102 (A: Alarm 1691/30)	Read
BV:103	binary_value: 103 (A: Alarm 1691/31)	Read

## FC-102 EMBEDDED BACNET (cont.)

Object ID	Object Name	Read / Write
BV:58	NA	NA
BV:59	NA	NA
BV:60	NA	NA
BV:61	NA	NA
BV:62	NA	NA
BV:63	NA	NA
BV:64	NA	NA
BV:65	NA	NA
BV:66	NA	NA
BV:67	NA	NA
BV:68	NA	NA
BV:69	NA	NA
BV:70	NA	NA
BV:71	NA	NA
BV:72	NA	NA
BV:73	NA	NA
BV:74	NA	NA
BV:75	NA	NA
BV:76	NA	NA
BV:77	NA	NA
BV:78	NA	NA
BV:79	NA	NA
BV:80	NA	NA
BV:81	NA	NA
BV:82	NA	NA
BV:83	NA	NA
BV:84	NA	NA
BV:85	NA	NA
BV:86	NA	NA
BV:87	NA	NA
BV:88	NA	NA
BV:89	NA	NA
BV:90	NA	NA
BV:91	NA	NA
BV:92	NA	NA
BV:93	NA	NA
BV:94	NA	NA
BV:95	NA	NA
BV:96	NA	NA
BV:97	NA	NA
BV:98	NA	NA
BV:99	NA	NA
BV:100	NA	NA
BV:101	NA	NA
BV:102	NA	NA
BV:103	NA	NA

## MCA109 FC-102 ADVANCED BACNET OPTION (cont.)

Object ID	Object Name	Read / Write
BV:104	binary_value: 104 (W: Brake Check)	Read
BV:105	binary_value: 105 (W: Pwr. Card Temp)	Read
BV:106	binary_value: 106 (W: Earth Fault)	Read
BV:107	binary_value: 107 (W: Ctrl. Card Temp)	Read
BV:108	binary_value: 108 (W: Ctrl. Word TO)	Read
BV:109	binary_value: 109 (W: Over Current)	Read
BV:110	binary_value: 110 (W: Torque Limit)	Read
BV:111	binary_value: 111 (W: Motor Th Over)	Read
BV:112	binary_value: 112 (W: Motor ETR Over)	Read
BV:113	binary_value: 113 (W: Inverter overld.)	Read
BV:114	binary_value: 114 (W: DC under Volt)	Read
BV:115	binary_value: 115 (W: DC over Volt)	Read
BV:116	binary_value: 116 (W: DC Voltage Low)	Read
BV:117	binary_value: 117 (W: DC Voltage high)	Read
BV:118	binary_value: 118 (W: Mains Ph. Loss)	Read
BV:119	binary_value: 119 (W: No Motor)	Read
BV:120	binary_value: 120 (W: Live Zero Error)	Read
BV:121	binary_value: 121 (W: 10V low)	Read
BV:122	binary_value: 122 (W: Brake Overload)	Read
BV:123	binary_value: 123 (W: Brake Resistor)	Read
BV:124	binary_value: 124 (W: Brake IGBT)	Read
BV:125	binary_value: 125 (W: Speed Limit)	Read
BV:126	binary_value: 126 (W: Fieldbus Fault)	Read
BV:127	binary_value: 127 (W: 24V Supply Low)	Read
BV:128	binary_value: 128 (W: Mains Failure)	Read
BV:129	binary_value: 129 (W: Current Limit)	Read
BV:130	binary_value: 130 (W: Low Temp)	Read
BV:131	binary_value: 131 (W: Voltage Limit)	Read
BV:132	binary_value: 132 (W: Encoder loss)	Read
BV:133	binary_value: 133 (W: Output Freq. limit)	Read
BV:134	binary_value: 134 (W: Safe stop)	Read
BV:135	binary_value: 135 (W: Ext. Status)	Read
BV:136	binary_value: 136 (W: Start delayed)	Read
BV:137	binary_value: 137 (W: Stop delayed)	Read
BV:138	binary_value: 138 (W: Clock failure)	Read
BV:139	binary_value: 139 (W: Fire mode was active)	Read
BV:140	binary_value: 140 (W: Reserved - P1693/04)	Read
BV:141	binary_value: 141 (W: No Flow)	Read
BV:142	binary_value: 142 (W: Dry Pump)	Read
BV:143	binary_value: 143 (W: End of Curve)	Read
BV:144	binary_value: 144 (W: Belt Broken)	Read
BV:145	binary_value: 145 (W: Discharge High)	Read
BV:146	binary_value: 146 (W: Reserved - P1693/10)	Read
BV:147	binary_value: 147 (W: Reserved - P1693/11)	Read
BV:148	binary_value: 148 (W: Reserved - P1693/12)	Read
BV:149	binary_value: 149 (W: Reserved - P1693/13)	Read

## FC-102 EMBEDDED BACNET (cont.)

Object ID	Object Name	Read / Write
BV:104	NA	NA
BV:105	NA	NA
BV:106	NA	NA
BV:107	NA	NA
BV:108	NA	NA
BV:109	NA	NA
BV:110	NA	NA
BV:111	NA	NA
BV:112	NA	NA
BV:113	NA	NA
BV:114	NA	NA
BV:115	NA	NA
BV:116	NA	NA
BV:117	NA	NA
BV:118	NA	NA
BV:119	NA	NA
BV:120	NA	NA
BV:121	NA	NA
BV:122	NA	NA
BV:123	NA	NA
BV:124	NA	NA
BV:125	NA	NA
BV:126	NA	NA
BV:127	NA	NA
BV:128	NA	NA
BV:129	NA	NA
BV:130	NA	NA
BV:131	NA	NA
BV:132	NA	NA
BV:133	NA	NA
BV:134	NA	NA
BV:135	NA	NA
BV:136	NA	NA
BV:137	NA	NA
BV:138	NA	NA
BV:139	NA	NA
BV:140	NA	NA
BV:141	NA	NA
BV:142	NA	NA
BV:143	NA	NA
BV:144	NA	NA
BV:145	NA	NA
BV:146	NA	NA
BV:147	NA	NA
BV:148	NA	NA
BV:149	NA	NA

## MCA109 FC-102 ADVANCED BACNET OPTION (cont.)

Object ID	Object Name	Read / Write
BV:150	binary_value: 150 (W: Reserved - P1693/14)	Read
BV:151	binary_value: 151 (W: Reserved - P1693/15)	Read
BV:152	binary_value: 152 (W: Reserved - P1693/16)	Read
BV:153	binary_value: 153 (W: KTY Temperature)	Read
BV:154	binary_value: 154 (W: Drive Fan failure)	Read
BV:155	binary_value: 155 (W: ECB failure)	Read
BV:156	binary_value: 156 (W: Reserved - P1693/20)	Read
BV:157	binary_value: 157 (W: Reserved - P1693/21)	Read
BV:158	binary_value: 158 (W: Reserved - P1693/22)	Read
BV:159	binary_value: 159 (W: Reserved - P1693/23)	Read
BV:160	binary_value: 160 (W: Reserved - P1693/24)	Read
BV:161	binary_value: 161 (W: Reserved - P1693/25)	Read
BV:162	binary_value: 162 (W: Reserved - P1693/26)	Read
BV:163	binary_value: 163 (W: Reserved - P1693/27)	Read
BV:164	binary_value: 164 (W: Reserved - P1693/28)	Read
BV:165	binary_value: 165 (W: Reserved - P1693/29)	Read
BV:166	binary_value: 166 (W: PTC Temperature)	Read
BV:167	binary_value: 167 (W: Reserved - P1693/31)	Read
BV:168	binary_value: 168 (Ramping active)	Read
BV:169	binary_value: 169 (AMA Running)	Read
BV:170	binary_value: 170 (Start CW/CCW)	Read
BV:171	binary_value: 171 (Slowdown)	Read
BV:172	binary_value: 172 (Catch up)	Read
BV:173	binary_value: 173 (Feedback High)	Read
BV:174	binary_value: 174 (Feedback Low)	Read
BV:175	binary_value: 175 (Output Current High)	Read
BV:176	binary_value: 176 (Output Current Low)	Read
BV:177	binary_value: 177 (Output Freq High)	Read
BV:178	binary_value: 178 (Output Freq low)	Read
BV:179	binary_value: 179 (Brake Check OK)	Read
BV:180	binary_value: 180 (Brake Max)	Read
BV:181	binary_value: 181 (Braking)	Read
BV:182	binary_value: 182 (Out of Speed range)	Read
BV:183	binary_value: 183 (OVC Active)	Read
BV:184	binary_value: 184 (AC Brake)	Read
BV:185	binary_value: 185 (Password Timelock)	Read
BV:186	binary_value: 186 (Password status)	Read
BV:187	binary_value: 187 (Reference high)	Read
BV:188	binary_value: 188 (Reference low)	Read
BV:189	binary_value: 189 (Reference site)	Read
BV:190	binary_value: 190 (Reserved - P1694/22)	Read
BV:191	binary_value: 191 (Reserved - P1694/23)	Read
BV:192	binary_value: 192 (Reserved - P1694/24)	Read
BV:193	binary_value: 193 (Reserved - P1694/25)	Read
BV:194	binary_value: 194 (Reserved - P1694/26)	Read
BV:195	binary_value: 195 (Reserved - P1694/27)	Read

## FC-102 EMBEDDED BACNET (cont.)

Object ID	Object Name	Read / Write
BV:150	NA	NA
BV:151	NA	NA
BV:152	NA	NA
BV:153	NA	NA
BV:154	NA	NA
BV:155	NA	NA
BV:156	NA	NA
BV:157	NA	NA
BV:158	NA	NA
BV:159	NA	NA
BV:160	NA	NA
BV:161	NA	NA
BV:162	NA	NA
BV:163	NA	NA
BV:164	NA	NA
BV:165	NA	NA
BV:166	NA	NA
BV:167	NA	NA
BV:168	NA	NA
BV:169	NA	NA
BV:170	NA	NA
BV:171	NA	NA
BV:172	NA	NA
BV:173	NA	NA
BV:174	NA	NA
BV:175	NA	NA
BV:176	NA	NA
BV:177	NA	NA
BV:178	NA	NA
BV:179	NA	NA
BV:180	NA	NA
BV:181	NA	NA
BV:182	NA	NA
BV:183	NA	NA
BV:184	NA	NA
BV:185	NA	NA
BV:186	NA	NA
BV:187	NA	NA
BV:188	NA	NA
BV:189	NA	NA
BV:190	NA	NA
BV:191	NA	NA
BV:192	NA	NA
BV:193	NA	NA
BV:194	NA	NA
BV:195	NA	NA

## MCA109 FC-102 ADVANCED BACNET OPTION *(cont.)*

Object ID	Object Name	Read / Write
BV:196	binary_value: 196 (Reserved - P1694/28)	Read
BV:197	binary_value: 197 (Reserved - P1694/29)	Read
BV:198	binary_value: 198 (Reserved - P1694/30)	Read
BV:199	binary_value: 199 (Reserved - P1694/31)	Read
MSO:0	multi_state_output: 0 (Setup command)	W/R
MSO:1	Reserved	W/R

## FC-102 EMBEDDED BACNET *(cont.)*

Object ID	Object Name	Read / Write
BV:196	NA	NA
BV:197	NA	NA
BV:198	NA	NA
BV:199	NA	NA
MSO:0	multi_state_value: 0 (Smart Logic Controller State)	Read
MSO:1	multi_state_value: 1 (Active Setup)	R/W

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