Functional Devices, Inc.™ RIB®
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MS/TP Address Setting

Bulletin B1082
393095J

MS/TP Address	DIP Switch 1	2	3	4	5	6	7
0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	1
2	0	0	0	0	0	1	0
3	0	0	0	0	0	1	1
4	0	0	0	0	1	0	0
5	0	0	0	0	1	0	1
6	0	0	0	0	1	1	0
7	0	0	0	0	1	1	1
8	0	0	0	1	0	0	0
9	0	0	0	1	0	0	1
10	0	0	0	1	0	1	0
11	0	0	0	1	0	1	1
12	0	0	0	1	1	0	0
13	0	0	0	1	1	0	1
14	0	0	0	1	1	1	0
15	0	0	0	1	1	1	1
16	0	0	1	0	0	0	0
17	0	0	1	0	0	0	1
18	0	0	1	0	0	1	0
19	0	0	1	0	0	1	1
20	0	0	1	0	1	0	0
21	0	0	1	0	1	0	1
22	0	0	1	0	1	1	0
23	0	0	1	0	1	1	1
24	0	0	1	1	0	0	0
25	0	0	1	1	0	0	1
26	0	0	1	1	0	1	0
27	0	0	1	1	0	1	1
28	0	0	1	1	1	0	0
29	0	0	1	1	1	0	1
30	0	0	1	1	1	1	0
31	0	0	1	1	1	1	1
32	0	1	0	0	0	0	0
33	0	1	0	0	0	0	1
34	0	1	0	0	0	1	0
35	0	1	0	0	0	1	1
36	0	1	0	0	1	0	0
37	0	1	0	0	1	0	1
38	0	1	0	0	1	1	0
39	0	1	0	0	1	1	1
40	0	1	0	1	0	0	0
41	0	1	0	1	0	0	1
42	0	1	0	1	0	1	0

MS/TP Address	DIP Switch 1	2	3	4	5	6	7
43	0	1	0	1	0	1	1
44	0	1	0	1	1	0	0
45	0	1	0	1	1	0	1
46	0	1	0	1	1	1	0
47	0	1	0	1	1	1	1
48	0	1	1	0	0	0	0
49	0	1	1	0	0	0	1
50	0	1	1	0	0	1	0
51	0	1	1	0	0	1	1
52	0	1	1	0	1	0	0
53	0	1	1	0	1	0	1
54	0	1	1	0	1	1	0
55	0	1	1	0	1	1	1
56	0	1	1	1	0	0	0
57	0	1	1	1	0	0	1
58	0	1	1	1	0	1	0
59	0	1	1	1	0	1	1
60	0	1	1	1	1	0	0
61	0	1	1	1	1	0	1
62	0	1	1	1	1	1	0
63	0	1	1	1	1	1	1
64	1	0	0	0	0	0	0
65	1	0	0	0	0	0	1
66	1	0	0	0	0	1	0
67	1	0	0	0	0	1	1
68	1	0	0	0	1	0	0
69	1	0	0	0	1	0	1
70	1	0	0	0	1	1	0
71	1	0	0	0	1	1	1
72	1	0	0	1	0	0	0
73	1	0	0	1	0	0	1
74	1	0	0	1	0	1	0
75	1	0	0	1	0	1	1
76	1	0	0	1	1	0	0
77	1	0	0	1	1	0	1
78	1	0	0	1	1	1	0
79	1	0	0	1	1	1	1
80	1	0	1	0	0	0	0
81	1	0	1	0	0	0	1
82	1	0	1	0	0	1	0
83	1	0	1	0	0	1	1
84	1	0	1	0	1	0	0
85	1	0	1	0	1	0	1

MS/TP Address	DIP Switch 1	2	3	4	5	6	7
86	1	0	1	0	1	1	0
87	1	0	1	0	1	1	1
88	1	0	1	1	0	0	0
89	1	0	1	1	0	0	1
90	1	0	1	1	0	1	0
91	1	0	1	1	0	1	1
92	1	0	1	1	1	0	0
93	1	0	1	1	1	0	1
94	1	0	1	1	1	1	0
95	1	0	1	1	1	1	1
96	1	1	0	0	0	0	0
97	1	1	0	0	0	0	1
98	1	1	0	0	0	1	0
99	1	1	0	0	0	1	1
100	1	1	0	0	1	0	0
101	1	1	0	0	1	0	1
102	1	1	0	0	1	1	0
103	1	1	0	0	1	1	1
104	1	1	0	1	0	0	0
105	1	1	0	1	0	0	1
106	1	1	0	1	0	1	0
107	1	1	0	1	0	1	1
108	1	1	0	1	1	0	0
109	1	1	0	1	1	0	1
110	1	1	0	1	1	1	0
111	1	1	0	1	1	1	1
112	1	1	1	0	0	0	0
113	1	1	1	0	0	0	1
114	1	1	1	0	0	1	0
115	1	1	1	0	0	1	1
116	1	1	1	0	1	0	0
117	1	1	1	0	1	0	1
118	1	1	1	0	1	1	0
119	1	1	1	0	1	1	1
120	1	1	1	1	0	0	0
121	1	1	1	1	0	0	1
122	1	1	1	1	0	1	0
123	1	1	1	1	0	1	1
124	1	1	1	1	1	0	0
125	1	1	1	1	1	0	1
126	1	1	1	1	1	1	0
127	1	1	1	1	1	1	1

- MS/TP Address & Baud Rate must be set prior to power up via DIP switches.
- Device ID will default to 277XXX where XXX is the MS/TP Address.

Examples:

MS/TP Address - 004
Device ID - 277004

MS/TP Address - 121
Device ID - 277121

- Device ID can be changed via network command. Once changed, it will no longer default to 277XXX. (MS/TP Address & Device ID must be unique.)

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Generic Protocol Implementation Conformance Statement

For detailed PIC Statements, locate the specific BACnet model on our website and click the "PIC Statement" link.

Vendor Name: Functional Devices, Inc.
Product Name: BACnet RIB
Product Model Number: Various
Applications Software Version: v1.05 or similar
Firmware Revision: 1.03R2
BACnet Protocol Revision: 4

1. Product Description
The BACnet RIB provides a software-implemented network interface between BACnet client devices and RIB control and monitoring points.

2. BACnet Standardized Device Profile (Annex L)
The BACdoor OEM Client-Server supports the B-ASC profile.

3. BACnet Interoperability Building Blocks Supported (Annex K)
DS-RP-B, DS-RPM-B, DS-WP-B, DS-WPM-B, DM-DDB-B, DM-DOB-B, DM-DCC-B

4. Segmentation Capability
Segmentation is not supported.

5. Standard Object Types Supported
No dynamic Creation or Deletion supported
No proprietary object types supported

Standard Object Types Supported:
- Analog Input
- Binary Input
- Binary Output
- Device

Optional Properties Supported:
- Analog Input
  - Description
  - Reliability
  - Min-Pres-Value
  - Max-Pres-Value
- Binary Input
  - Description
  - Reliability
  - Inactive-Text
  - Active-Text
- Binary Output
  - Description
  - Reliability
  - Inactive-Text
  - Active-Text
  - Minimum-On-Time
  - Minimum-Off-Time
- Device
  - Description
  - Max-Master
  - Max-Info-Frames

Writable Properties:
- Analog Input
  - Object-Name (32 characters max)
  - Description (64 characters max)
  - Units
  - Min-Pres-Value
  - Max-Pres-Value
- Binary Input
  - Object-Name (32 characters max)
  - Description (64 characters max)
  - Inactive-Text (32 characters max)
  - Active-Text (32 characters max)
  - Polarity
- Binary Output
  - Object-Name (32 characters max)
  - Description (64 characters max)
  - Inactive-Text (32 characters max)
  - Active-Text (32 characters max)
  - Polarity
  - Present-Value
  - Relinquish-Default
- Device
  - Object-Identifier
  - Description (64 characters max)
  - APDU-Timeout
  - Number-Of-APDU-Retries
  - Max-Master

6. Data Link Layer Options
☐ BACnet/IP, (Annex J)
☐ ISO 8802-3, Ethernet (Clause 7)
☐ ANSI/ATA 878.1, 2.5 Mb. ARCNET (Clause 8)
☐ ANSI/ATA 878.1, RS-485 ARCNET (Clause 8), configurable baud rate to 156K
■ MS/TP master (Clause 9): 9600, 19200, 38400, 76800 baud
☐ PTP (Clause 10)

7. Device Address Binding
Static binding is not supported.

8. Networking Options
The RIB is not a router.
Annex H, BACnet Tunneling Router over IP is not supported
BACnet/IP Broadcast Management Device (BBMD) is not supported

9. Character Sets Supported
■ ANSI X3.4
☐ IBM/Microsoft DBCS
☐ JIS C 6226
☐ ISO 10646 (UCS4)
☐ ISO 10646 (UCS2)
☐ ISO 8859-1