

MS/TP Address Setting

Bulletin B1082
 393095K

| 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 | 1 | 0 |
| 118 | 1 | 1 | 1 | 0 | 1 | 1 | 1 |
| 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 | MS/TP Address - 121 |
| Device ID - 277004 | 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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|---------------|------------|---|---|---|---|---|---|
| | 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 | | | |

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 Output
- Binary Input
- Device

Optional Properties Supported:

- Analog Input
- Binary Output
- Description
- Reliability
- Min-Pres-Value
- Max-Pres-Value
- Binary Input
- 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-Retrieves
- 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

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No proprietary object types supported

Standard Object Types Supported:

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- Binary Output
- Binary Input
- Device

Optional Properties Supported:

- Analog Input
- Binary Output
- Description
- Reliability
- Min-Pres-Value
- Max-Pres-Value
- Binary Input
- 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-Retrieves
- Max-Master

6. Data Link Layer Options

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