# CRESTRON

## I²P Certified Module

**Partner: beyerdynamic**
**Model: MCS 50**
**Device Type: Audio Conference**

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## GENERAL INFORMATION:

| | |
|---|---|
| **SIMPLWINDOWS NAME:** | beyerdynamic MCS 50 v1.0.UMC |
| **CATEGORY:** | Conferencing |
| **VERSION:** | v1.0 |
| **SUMMARY:** | This module controls the beyerdynamic MCS 50 unit. |
| **GENERAL NOTES:** | This module controls the beyerdynamic MCS 50 unit.<br>The module allows mode selection, chairman functions and general settings. |
| **CRESTRON HARDWARE REQUIRED:** | 2-Series processor with an available COM port connected to the MCS 50. |
| **SETUP OF CRESTRON HARDWARE:** | RS232<br>Baud: 9600<br>Parity: N<br>Data Bits: 8<br>Stop Bits: 1 |
| **VENDOR FIRMWARE:** | NA |
| **VENDOR SETUP:** | MCS 50 with 1 Chairman unit and 3 delegate units. |
| **CABLE DIAGRAM:** | |

### Standard pin-out of any RS 232 com port (9 pin):

| Sub- D pin # | function | Data Flow MCS <-> control unit |
|---|---|---|
| 1 | - | - |
| 2 | TxD | -> |
| 3 | RxD | <- |
| 4 | - | - |
| 5 | GND | - |
| 6 | - | - |
| 7 | CTS | <- |
| 8 | RTS | -> |
| 9 | - | - |

## CONTROL:

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| | | |
|---|---|---|
| **Post XX Request** | D | Pulse to enable Post XX to speak. (1-64) |
| **Reset Unit** | D | Pulse to reset the unit. |
| **Clear Request To Talk List** | D | Pulse to clear the RTT list. |
| **Next Speaker** | D | Pulse to enable the next speaker in the RTT list to speak. |
| **Clear All Mics Except Chairman** | D | Pulse to clear all mics except chairman. |
| **Volume Up** | D | Pulse to increase the volume. |
| **Volume Down** | D | Pulse to decrease the volume. |
| **Change Mode to RTT** | D | Pulse to change the mode to RTT. |
| **Change Mode to Manual** | D | Pulse to change the mode to Manual. |
| **Change Mode to Override** | D | Pulse to change the mode to Override. |
| **Change Mode to Automatic** | D | Pulse to change the mode to Automatic. |
| **Activate Priority Status** | D | Pulse to activate the Priority Status. |
| **Deactivate Priority Status** | D | Pulse to deactivate the Priority Status. |
| **From Unit** | S | Needs to be connected to the RX output of the corresponding COM port. |

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## FEEDBACK:

| | | |
|---|---|---|
| **Chairman Is Speaking** | D | Pulses 1s high to indicate that a Chairman started speaking. |
| **Chairman Is Speaking Using Priority** | D | High to indicate that a Chairman started speaking Using Priority. |
| **MicStatus Post XX** | D | High to indicate that Post XX is enabled to speak. (1-64) Pulses 0.7s high and 0.3s low to indicate that this user has requested to talk. |
| **Unit Is Reset** | D | Pulses 1s high to indicate that the unit is reset. |
| **Request To Talk List Is Cleared** | D | Pulses 1s high to indicate that the RTT list is cleared. |
| **Next Speaker Is Executed** | D | Pulses 1s high to indicate that the next speaker in the RTT list is activated. |
| **Clear All Mics Except Chairman Is Executed** | D | Pulses 1s high to indicate that all mics are cleared except the one of the chairman. |
| **Mode Is RTT** | D | Pulses 1s high to indicate that the current mode is Request To Talk. |
| **Mode Is Manual** | D | Pulses 1s high to indicate that the current mode is Manual. |
| **Mode Is Override** | D | Pulses 1s high to indicate that the current mode is Override. |
| **Mode Is Automatic** | D | Pulses 1s high to indicate that the current mode is Automatic. |
| **Request To Talk List Pos X** | A | Analog value containing the Post number of the speaker on Pos X in the RTT list. |
| **To Unit** | S | Needs to be connected to the TX input of the corresponding COM port. |

## TESTING:

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|---|---|
| **OPS USED FOR TESTING:** | PRO2 4.001.1012 (Feb 17 2009) |
| **SIMPL WINDOWS USED FOR TESTING:** | 2.12.44 |
| **CRESTRON DB USED FOR TESTING:** | 23.00.015.00 |
| **DEVICE DB USED FOR TESTING:** | 30.06.001.00 |
| **SAMPLE PROGRAM:** | beyerdynamic MCS 50 v1.0 PRO2 Demo.smw |
| **REVISION HISTORY:** | V. 1.0 |

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