MCDS4 WIRING DIAGRAM

MCDS4

12V DC 300mA

GND +12V DC

MODULAR BLOCK
SEE NOTE 3

RED   GRN
BLK   YEL
WHT   BLU

8 OHMS/SEC.

CLASSROOM SPEAKER

BLU   1/8 W
GRN   1/4 W
YEL   1/2 W
ORN   1 W
RED   2 W
BRN   4 W
BLK   COM

SPEAKER PAIR

JACKETED CABLE

OPTIONAL WIRING

MCRMF BACKPLANE

P8
RX 1
TX 2
RX 3
TX 4
COM 2

RS 485
(MULTICOM 2000 APPLICATIONS ONLY)

SEE NOTE 2

TO MCDS4's

TO MCDS4's

SEE NOTE 1

SEE NOTE 1

TWISTED PAIR

TO **BLUE** TERMINAL ON MODULAR BLOCK
TO **WHITE** TERMINAL ON MODULAR BLOCK
TO **GREEN** TERMINAL ON MODULAR BLOCK
TO **RED** TERMINAL ON MODULAR BLOCK

SHIELD OR SEPARATE CONDUCTOR DEPENDING ON CABLE TYPE

SPEAKER PAIR

MC-RM
S S A G

NOTES

1. ADDITIONAL MCDS4's CAN BE CONNECTED IN PARALLEL, TO EITHER PINS 1 & 2 OR 3 & 4 ON MC2000 BACKPLANE CONNECTOR P8 (MULTICOM 2000 ONLY).

2. FOR MCPCA2 MICROPROCESSOR CARD SET, JUMPER JMP1 TO THE "ON" POSITION. COM 2 PORT USED FOR OUTSIDE LINE STATUS ONLY.

3. ACTUAL MODULAR BLOCK TERMINALS MAY NOT FOLLOW ORDER AS SHOWN ON DIAGRAM - USE COLORS AS REFERENCE, NOT POSITIONS.

BOGEN®

Model MCDS4
Administrative Telephone Operating Instructions

The Bogen Model MCDS4 is a 12-push-button, touch-tone type telephone designed for use as an administrative telephone in Bogen communications systems. It incorporates an LCD display panel and unique display menu system to provide rapid, efficient and reliable control over the system's operational functions.

The MCDS4 also includes nine dedicated function pushbuttons and three programmable function buttons. The dedicated functions include: Speed Dial of up to 10 frequently dialed numbers, Redial last number, Speakerphone (for hands-free conversation), Line (to get dial tone when using the speaker), Hold, and Speaker Volume Control. The programmable function buttons can be used to direct dial a frequently called number or to activate one of the system's communications functions (alarm, external relay, etc.).

The MCDS4 provides five different ring signals to distinguish call alert, normal, urgent, emergency calls, and incoming outside line calls. It is fully compatible with the MCTC Board option and, when connected to a Multicom 2000 system's RS485 interface, can display the status of the first 8 outside lines and hold status for those lines.

The phone may be mounted on a wall or desktop. It includes a pull-out number index and a replaceable coil cord.

BOGEN®
COMMUNICATIONS, INC.

Overview of MCDS4

Dedicated Feature Buttons

SPEED DIAL
Used to select a number stored in memory

REDIAL
Redials the last number called
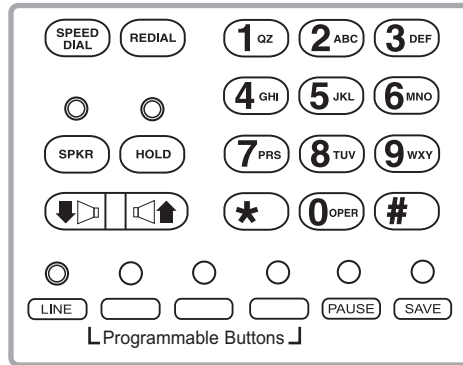
SPKR
Selects speakerphone mode

HOLD
Places a call on hold (must be connected to RS485 interface for hold to operate properly)

UP/DOWN
(Arrows)- Increases/decreases the ring volume; adjusts speaker volume; scrolls display menu, and adjusts handset volume

LINE
Provides direct access of an outside line or line that has been placed on hold

└ Programmable Buttons ┘

PAUSE
Used in programming, to place a pause between digits

SAVE
Used to save numbers in speed dial memory

Operation

To get dial tone: Lift handset or press (SPKR) button

To place a call:

Internal — Get dial tone. Dial (✱) plus the extension or classroom number to call classroom telephone, or, dial extension or classroom number to call classroom speaker.

Outside Line — Get dial tone. Press (9 WXY) and then (8 TUV). You will be connected to the first available line, or, direct access by dialing the line architectural number, or, direct access by pressing (LINE) and line number desired (1 - 8).

To Redial the last number called: Get dial tone and press (REDIAL) button.

To Place a Call On Hold: Press the (HOLD) button. Note: For Multicom 2000 systems, when an outside line is placed on hold, an "H" will flash on the outside line status display. (RS485 wiring connection required.)

To Retrieve a Call:

Internal — Press the (HOLD) button.

Outside Line — Press (LINE) and the line number (1 - 8) using the numeric buttons.

To Disconnect a Call: Hang up the handset or, if in speaker mode, press (SPKR).

To Adjust Ring Volume: Make sure the phone is off-line. Press (◁▲) to increase ring volume. Press (▼▷) to decrease volume.

To Adjust Speaker Volume: Press (SPKR) button. Press (◁▲) button to increase volume. Press (▼▷) to decrease volume.

To Adjust Handset Volume: Lift Handset. Press (◁▲) to increase volume. Press (▼▷) to decrease volume *(4 volume steps)*.

Advanced Operation

Speed Dial Programming

1. Make sure handset is in cradle.
2. Press (SPEED DIAL) button.
3. Select a speed dial code by pressing (0 OPER) through (9 WXY).
4. Pick up the handset or press (SPKR) button. Enter the extension number or outside number to be stored. Note: If you need to enter a pause in the dialing string to accommodate a PBX outside line function, for example, press the (PAUSE) button. Each press will create a pause of approximately 1 second.
5. Press (SAVE) button after completing the number string.
6. Press (✱) to store the number in memory.

To Speed Dial: Get dial tone. Press (SPEED DIAL) button and the speed dial code **(0 - 9)**.

Programmable Function Buttons

To program the function buttons, perform the following steps:

1. Make sure handset is in cradle.
2. Press one of the function buttons.
3. Pick up handset or press (SPKR) button. Enter the extension number, outside line number, or DTMF string to be stored (if storing events such as alarms, zone pages, etc.). Note: If you need to enter a pause in the dialing string to accommodate a PBX outside line function, for example, press the (PAUSE) button. Each press will create a pause of approximately 1 second.
4. Press (SAVE) button after the complete number string.
5. Press (✱) to store the number in memory.

Wiring
Install the MCDS4 according to the diagram on the last page. If the optional outside line feature is installed, the MCDS4 must be correctly wired to the RS485 interface.

Wall-Mount Instructions
To Install MCDS4 as a wall-mounted phone, follow these steps:
• STEP 1: Remove (4) screws on bottom of unit, and also remove directory plate.
• STEP 2: Detach unit and rotate bottom of unit 180 degrees.
• STEP 3: Re-insert screws and hang from wall using keyholes.

DIRECTORY PLATE

KEYHOLES