

# Wall Display Unit

## Model MCWD



### Description

The Bogen Model MCWD is a wall display unit for the Bogen Multicom 2000® and Quantum Multicom IP Systems. It duplicates many of the functions of the display panel built into the Model MCDS administrative display telephone. The wall display is designed to be visible from at least 20 feet, making it ideal for use in offices where more than one person may be responsible for staff station call-in.

The MCWD permits many versatile communication configurations. It eliminates the necessity of having 2 telephones on a desk by letting you use a house telephone system to both originate and receive calls to/from the Multicom 2000 and Quantum Multicom IP Systems. By using an accessory access module, multiple telephones can be connected to a station port to originate and answer calls. Enhanced staff phones can be used instead of house-system telephones, and each phone can be given access to outside lines. Up to 5 wall displays can be connected to one Multicom 2000 or Quantum Multicom IP system station port (or any combination of up to five wall displays and administrative telephones can be connected).

The wall display normally shows the time of day and active time signalling (class change) schedule. When staff station calls are received, the schedule information is replaced with the numbers of up to four incoming calls and their priority level. The unit sounds a standard ring signal for normal and urgent calls. Emergency calls take priority and flash the word HELP along with the number. A distinct emergency ring signal also sounds. When an outside line call is received, the display shows the number assigned to the outside line station and sounds a distinct outside-line ring signal.

The wall display has its own internal microprocessor, nonvolatile EPROM, and DTMF decoder circuitry. It is equipped with terminal connections for a power supply (Model PCMPS2 recommended, not supplied) and telephone line input/output. The display is housed in a steel chassis with a flat black finish. Dimensions are 8-3/16" H x 8-3/16" W x 7/8" D. It is designed for mounting to an in-wall gang box (such as Steel City Model 2G-1/2 & 3/4), or surface mounted in a Model WDBB back box (adds 1" to depth).

### Features

- Displays time, active bell schedule, and call-in information
- Four distinct ring signals for normal, emergency, call-waiting, and outside line calls
- Adjustable level control
- Emergency calls take priority and flash "Help"
- Visible from at least 20 feet

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**Architect  
& Engineer  
Specifications**

(Qty.) \_\_\_\_\_ Model MCWD Wall Display units shall be provided.

The MCWD shall display time, active time-event schedule, and call-in information similar to that displayed by the MCDS administrative telephone. It shall include an integral loudspeaker and ring signal generator. Four distinct ring signals shall be internally generated to aid in the identification of calls. A screwdriver-adjustable control shall be included to permit adjustment of the ring signal level.

The display shall consist of twenty-eight (28) 0.8 inch high, red seven-segment light emitting diodes (LED). The light power output of the LEDs shall be adequate for daylight use. The display shall be readable from a distance of at least 20 feet. A non-glare filter/screen shall be included to enhance readability.

Operation of the display panel shall be as follows:

1. When no incoming calls are present, the display shall show the time and the active time-event schedule (if any).
2. When a normal or urgent call is received, the schedule information shall be replaced by the number of the calling station along with the priority level ("U" for urgent calls). A distinct "incoming-call" ring signal shall sound for a predetermined length of time upon receiving a call.
  - 2a. Subsequent calls shall be displayed and stored according to the operating method of the Multicom 2000 or Quantum Multicom IP system call-waiting queue. A distinct "call-waiting" ring signal shall sound each time the display is updated, or every 60 seconds, as long as calls remain in the queue.
3. When an emergency call is received, the time display shall be replaced by the word HELP flashing in red. The number of the station making the emergency call shall replace the time-event schedule and shall appear with the letter "E" to designate the call as an emergency call. A distinct "emergency-call" ring signal shall sound and shall continue to sound until the call is answered.

4. When an outside-line call is received, the schedule information shall be replaced by the number assigned to the outside line. A distinct "outside-call" ring signal shall sound and shall continue to sound until the call is answered or until the calling party terminates the call.

The MCWD shall have an internal microprocessor and nonvolatile EPROM to store operating code (firmware). It shall also have a DTMF decoder to process display data signals sent by the Multicom 2000 or Quantum Multicom IP systems. A two-terminal connecting block shall be provided for power supply connection. A separate four-terminal block shall be provided for telephone line input and output.

The display shall operate from a 12V DC power supply with a current rating of at least one (1) ampere. (Power supply not included with unit. Bogen Model PCMPS2 power supply recommended.)

The MCWD shall be housed in a steel chassis, finished in black. Dimensions shall be 8-3/16" H x 8-3/16" W x 7/8" D. It shall be mounted to:

1. In-wall gang box (Steel City Model 2G-1/2, 2G-3/4, or equivalent, not supplied).  
OR
2. Surface-mount box (Bogen Model WDBB, optionally available). The surface-mount box shall be a Bogen Model WDBB or approved equivalent. It shall be constructed of steel and finished in black. It shall have predrilled mounting points suitable for the installation of the Bogen MCWD wall display panel. Dimensions shall be 8-3/16" H x 8-3/16" W x 7/8" D.

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50 Spring Street, Ramsey, NJ 07446  
201-934-8500 FAX: 201-934-9832 www.bogen.com