



- System capability 3000+ units
- Delegate or central control
- 7-way single cable connections
- Digitally controlled
- Common mode audio system

The portable delegate microphone unit (PDM-1M) is available with a built-in loudspeaker (PDM-2M), with voting (-MV5), and with both voting and a cardreader (-MV5C). The unidirectional electret microphone has a semi-rigid stem and a ring luminant to identify live units.

The delegate unit has a single switch and indicators (WAIT/MIC ON). It is possible to cancel requests and to temporarily mute the microphone when it is live. The microphones can be switched by the user or by an operator using a CPM-401/2 manual control console or a computer control system. They can be used in either delegate control mode, with the possibility of operator intervention, or in central control mode with the facility to temporarily mute individual units and to assign VIP status which allows delegate switching without operator intervention.

The five voting controls allow the user to vote YES, NO,

or AB-STAIN (Parliamentary Mode) or to select one from five or two from five (Multiple Choice Mode). Votes can be changed during the voting period as only the last vote is counted.

The electronic cardreader uses programmable "smart cards" to identify the user and overcomes the need to pre-assign seats. The unit also has an ALERT indicator which indicates "Message Waiting" and gives a warning when the pre-set "Speech Time" has elapsed (in systems fitted with an automatic timer).

Delegate and chairman's units connect on a bus system to the network controller and power supply unit (PM-100 or NC-50) via a 7-conductor cable. Usually a single loop through cable is used but trunk and spur connection is also possible according to the requirements.

## Chairman's Unit

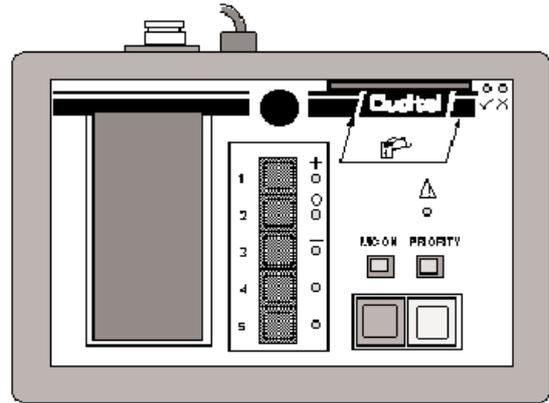
The chairman's unit has a push button switch and indicator (MIC ON) which operates manually with the possibility of operator intervention. It also has a PRIORITY switch and indicator which temporarily mutes the delegate units whilst simultaneously activating the chairman's microphone. The system status is restored when the priority mode is cancelled. In other respects the chairman's unit has the same facilities as the corresponding delegate unit and it connects to the delegate cable network at any point.

## Technical Data

Microphone and Pre-amplifier	
Sensitivity	-63dBV ( $\pm 3$ dB)
Rear attenuation	-20dB at 1 kHz
Frequency response	100Hz-15kHz (-3dB)
S/N at 1mV input	72dB (A wtg.)
Distortion at 1 kHz	less than 0.15%
Built-in compressor/limiter	
Loudspeaker	
Max. power handling	1000mW
Frequency response	175Hz-10kHz ( $\pm 5$ dB)
SPL at 1kHz	87dB/W/m
Colour	black anodised
Size (with speaker)	230x156x45mm
(mic.unit only)	156x156x45mm
(NB; depth 52mm with cardreader)	

## Common Mode Reverse Audio Feed

Auditel conference systems incorporate CMRAF which allows both the microphone output and the loudspeaker drive signals to use the same pair of conductors without interaction. This permits equalisation, frequency shift and external signals to be introduced into the distributed loudspeaker system of the delegate units whilst retaining the single-cable 7-conductor loop through connections. It also enables local sound reinforcement to be combined with the incoming signal in teleconference applications.



## CONNECTIONS

### DELEGATE & CHAIRMAN



7-PIN DIN

- 1 ; data -
- 2 ; 0 volts
- 3 ; audio -
- 4 ; data +
- 5 ; audio +
- 6 ; - 24 volts
- 7 ; +24 volts

## Architects and Engineers specification

The fixed type delegate units shall have a unidirectional electret microphone with a ring luminant, a switch with indicators for WAIT/MIC ON, an ALERT indicator which indicates 'Message Waiting' and gives a warning when the pre-set "Speech Time" has elapsed, and (according to requirements) a loudspeaker, and five voting controls for Parliamentary and Multiple Choice voting modes, and an electronic cardreader. The units shall be digitally controlled and operate in delegate control with the possibility of operator intervention, or in central control mode. It shall be possible to temporarily inhibit selected units and to assign VIP status and the units shall also have a common mode audio system. The chairman's unit shall have an ON/OFF switch with indicator for MIC ON and a PRIORITY switch. Delegate and chairman's units shall connect by a 7-conductor loop through cable to the network controller. The frequency response shall be at least 100Hz-15kHz (-3dB), S/N at 1mV input better than 72dB (A wtg.), and distortion less than 0.15%. Loudspeakers shall have a power handling of at least 1000mW, frequency response 175Hz-10kHz ( $\pm 5$ dB) and SPL at least 87dB/W/m.

We reserve the right to vary the specification without notice in the interest of product improvement

