



ME-1

Remote Mic Input Plate

Installation Guide

Introduction

The ME-1 is a remote mic input plate for use with the Cloud DCM-1 Digitally Controlled Mixer, and cannot be used with any other Cloud product. This document provides information on how to connect ME-1s into a DCM-1-based audio system. Further information on configuring the DCM-1 itself for use with ME-1s can be found in the DCM-1 Installation and User Guide.

The ME-1 allows connection of two separate microphones into a DCM-1-based audio system. The plate acts as a 2-into-1 mixer, i.e., if both mic inputs are in use, a mono sum of the two is sent to the DCM-1 for routing to the zone(s).



Introduction - continued

The two microphone channels are identical.

The mic input connector is a 3-pin latching female XLR, wired to the industry-standard pinout:

PIN	FUNCTION
1	Ground
2	Signal 'hot' (+, phase)
3	Signal 'cold' (-, antiphase)

Phantom power (12v) can be activated by a rear jumper (see below), permitting the use of either dynamic or condenser microphones. Between -85dB and +60dB of gain adjustment is available with the faceplate control to suit most types of microphone; when the plate is in use, mic volume is adjusted with this control alone. HF and LF EQ adjustment is provided via two screwdriver-operated preset controls; these should be adjusted using the microphone (and ideally, the speaker him/herself) for optimum clarity.

See the DCM-I Installation and User Guide, p33, for details of how an ME-I input plate is activated.

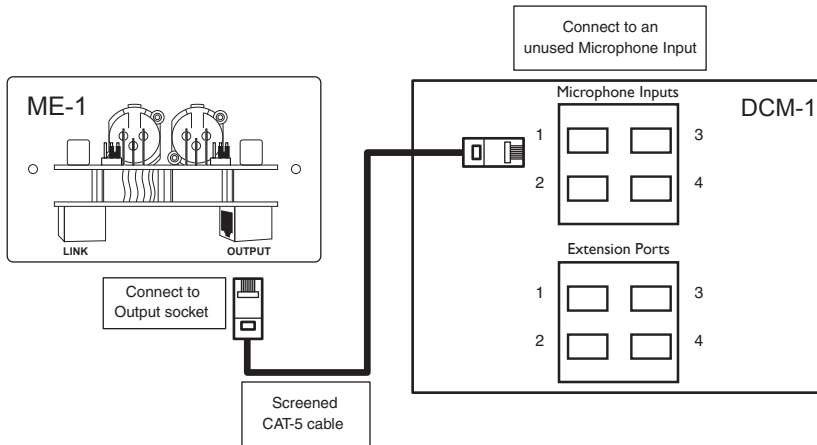
Mounting - mechanical

The Cloud ME-I fits a standard dual-gang electrical back box. The back box used should have a depth of at least 35mm (1.25"). Note that the ME-I is made in various faceplate sizes to suit standard electrical plate sizes in use in the UK, USA and Australia; ensure you have the correct version for your territory.

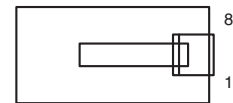
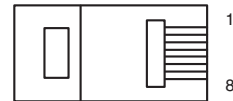
Wiring

The ME-I's OUTPUT connector should be connected to one of the DCM-I's MICROPHONE INPUTs with screened CAT-5 cable and shielded RJ45 plugs.

Note that because the cables carry low-level audio, only screened CAT-5 should be used, the foil screen of the cable being bonded to the metal screening can of the plugs. If an ME-I is being mounted in close proximity to the DCM-I, it may be possible to use ready-made screened CAT-5 "patch" cables of an appropriate length. Otherwise, shielded RJ45 plugs should be crimped onto the installed screened CAT-5 cable using the pinout shown below.



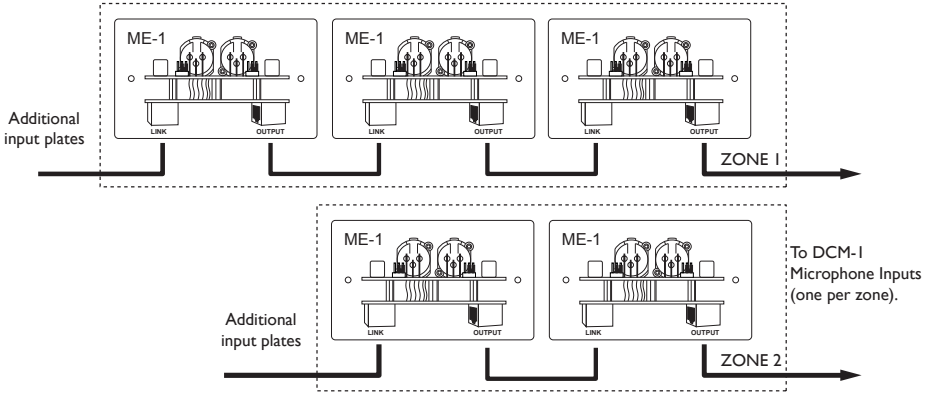
PIN	USE	CAT-5 CORE
1	Mic sum (cold)	White + Orange
2	Mic Sum (hot)	Orange
3	Sense	White + Green
4	DC +ve	Blue
5	0v	White + Blue
6	DC -ve	Green
7	n/u	White + Brown
8	n/u	Brown



Connecting Multiple ME-Is

Multiple ME-Is may be “daisy-chained” together to provide additional input points, normally in the same zone. Signals applied to plates wired in this way will be summed together to the DCM-1 Microphone Input to which the “last” ME-I in the chain is connected. An internal gating circuit on each plate automatically “disconnects” any chained plates which are not in use, to minimise noise contribution. All microphones plugged into ME-Is on such a chained system will be summed together into one mono signal.

Multiple ME-Is may be daisy-chained together by connecting the LINK RJ45 socket on the first ME-I (that whose OUTPUT socket is connected directly to the DCM-1) to the OUTPUT socket on the second ME-I, and so on, as shown on page 4.

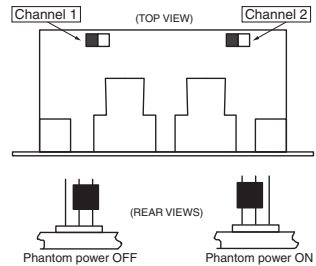


Note that it is not possible to intermix ME-Is with either Cloud LE-I or BE-I remote line input plates in this manner.

Phantom Power

12 volt phantom power may be enabled on either input channel. The installer should determine what type of microphone(s) are to be used with the ME-I before setting these, as inadvertently-applied phantom power can damage some types of dynamic microphone.

Phantom power is enabled by moving the two jumpers on the rear pcb, as shown.



DC Power

The ME-I is powered from the DCM-1's MICROPHONE INPUTs via the CAT-5 connection. The ME-I consumes 43mA of current at both +12v and -12v from the DCM-1 power supply.

If there is any doubt regarding the DCM-1's spare DC power capacity (as might be the case in a very large system with many CDR-I remote controls, level restoration relays, etc.), please refer to page 53 of the DCM-1 Installation and User Guide where full details of the DCM-1's PSU ratings can be found.

Should you have any questions concerning the installation and connection of the ME-I, please contact our Technical Support staff (details on front cover).