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VERIFACT™ D/D-V

MICROPHONES

INSTALLATION AND OPERATING INSTRUCTIONS

VERIFACT™ D Microphone



VERIFACT™ D-V Microphone

Vandal Resistant



The Verifact™ Models D and D-V are omni-directional, low impedance, electret condenser microphones with built-in preamp. They can pick up normal sounds approximately 15' away if mounted to a wall, or within a 30' circle if ceiling mounted. The microphone and pre-amp are mounted to the back of a single gang stainless face plate. Model D-V is designed for correctional facilities, or areas where vandalism is a concern. It contains the identical electronics as the Verifact™ D Microphone but is mounted to a 16 gauge stainless steel face plate. Microphone opening is a hooded audio port for providing protection to the microphone. Tamper proof screws are included with the D-V.

Both Verifact™ D and D-V fit into a standard single gang electrical box (not supplied).

WIRING REQUIREMENTS

2 Conductor **shielded** cable, 22 gauge with a 24 gauge drain wire

NOTE: Unshielded cable is not satisfactory for audio systems



MECHANICAL INSTALLATION:

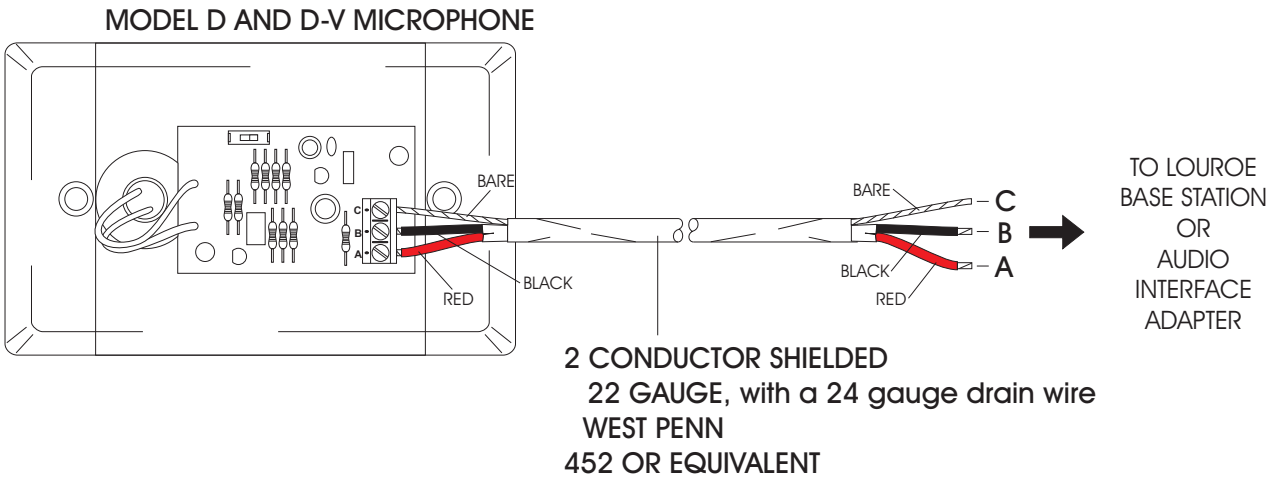
Models D and D-V are designed to be installed in a single gang electrical box for flush or surface mounting to a wall or ceiling. It should be positioned 3 to 6 ft. from the area of desired coverage. Ceiling heights in excess of 10 ft. should be avoided.

MICROPHONE CONNECTION:

Model D and D-V Microphones connect directly to any Louroe Audio Base Station or to a Louroe Microphone Mixer (Model MLA-6 or RN-2). A small terminal block is located on the microphone pre-amp, and marked A, B, C. Using recommended cable, connect as follows:

Red wire connects to terminal A (+12Vdc)
Black wire connects to terminal B (audio output)
Bare wire connects to terminal C (ground)

If using cable from other manufacturers, color code may vary.



CONNECTING VERIFACT™ D OR D-V MICROPHONE TO A LOUROE™ BASE STATION OR AUDIO INTERFACE ADAPTER (IF-1, IF-4 or IF-8)

All Louroe base stations and audio interface adapters have a corresponding terminal block marked A, B C for each audio zone. Bring in other end of cable from the microphone and connect to the terminal block (or blocks) matching

A to A
B to B
C to C

Maximum cable run between microphone and base station/interface adapter is 1,000 ft.

INSTALLATION TIP: If area to be monitored for audio is noisy or has background disturbances, the microphone should be positioned close to the subject (2' - 6') if possible.

CONNECTING MODEL D OR D-V MICROPHONE TO OTHER AUDIO SOURCES

If a Louroe audio base station or interface adapter is not used and microphone is to be connected directly to another audio source, use the following procedure:

1. Apply 12 Vdc power (100mA minimum) to PC board's terminals A and C. A is positive, C is ground.
2. Using a single conductor shielded cable, 22 gauge with a 24 gauge drain wire, connect shielded wire to terminal B and drain wire to terminal C (C is common).
3. Run other end of cable to the audio source. If audio input is an RCA connection, solder on an RCA connector with wire from terminal B of microphone going to the tip of the RCA plug, and wire from terminal C going to the sleeve of the plug. Connect RCA plug into "audio in" of the audio source. If connection to the audio source is a terminal block or strip, refer to audio source's instructions for proper connection.

MICROPHONE SENSITIVITY SWITCH

The microphone pre-amp (PC board) contains a sensitivity switch with two positions:

N represents normal sensitivity (zero dB @ 1,000ΩΩ)

L represents lower sensitivity (-6 dB @ 1,000ΩΩ)

Microphone is always shipped in the N position. For less microphone sensitivity, move slide switch to L position. Do not change unless required.

INSTALLATION TIPS

1. Use overall shielded audio cable only. West Penn 452, Belden 8451 or equivalent. UNSHIELDED CABLE IS NOT SATISFACTORY FOR SOUND SYSTEMS.
2. When used at a cash register checkout, microphone should be installed closer to the customer rather than the cash register, as the drawer sound could dominate the recording. It should be installed closest to the area to be monitored and documented.
3. Avoid installing microphone near air vents, air conditioners, fans and other equipment that generate high sound and air pressure.
4. If microphone is installed in a police interview room, room should be conditioned with any type of carpeting, acoustical ceiling tiles, acoustical foam, etc. to reduce echo. This will enhance the quality of live and recorded audio.
5. The microphone should have a barrier or solid wall between them in order to avoid audio feedback, especially when they are in close proximity to each other. If no barrier, microphone should be at least 25' from the base station to avoid acoustical feedback.

TROUBLE SHOOTING

Microphone inoperative:

A) Incorrect wiring of terminals A and C
B) Short or open connections in shielded cable
C) Faulty microphone

MANUFACTURED IN THE



IMPORTANT NOTICE

When this equipment is used as part of an audio monitoring system, the law requires that the public be given notice of AUDIO MONITORING ON THE PREMISES. A decal notice is included with each microphone shipped.



Federal Law References:
Federal Regulations, US Code, Title 18. Crime and Criminal Procedure, Sec 2510.

SPECIFICATIONS

Type	Electret Condenser
Output	Line level (0 dB @ 1KΩ)
Sensitivity (microphone & preamp)	80 dB SPL input provides 0.254V RMS
Frequency response	40 Hz to 15 kHz ± 1 dB
Current drain	4 mA
Supply voltage	12 Vdc
Output impedance	600Ω unbalanced
Dimensions (faceplate) US metric	2 ¾" W x 4 ½" H (6.9cm W x 11.4cm H)
Backbox	Single gang electrical box (not included)
Weight (net)	8 oz (0.2 Kg)

WARRANTY

LOUROE ELECTRONICS® warrants that at the time of shipment products manufactured by LOUROE ELECTRONICS® to be free of defects in material and workmanship. Should a defect appear within one year (12 months) from date of shipment, LOUROE ELECTRONICS will, at its sole discretion, repair or replace the defective equipment. This equipment shall not be accepted for repair or return without prior notification by LOUROE ELECTRONICS®.

This warranty does not extend to any Louroe product that has been subjected to improper or incorrect installation, misuse, accident, or in violation of installation instructions provided by LOUROE ELECTRONICS®.

Returned shipments to LOUROE ELECTRONICS® shall be at customer's expense. LOUROE ELECTRONICS® will return the equipment prepaid via best way.