ASK-4® #302
AUDIO MONITORING SYSTEM
INSTALLATION AND OPERATING INSTRUCTIONS

ASK-4® #302 is a two zone audio monitoring system designed for direct connection to:
- DVR or VCR
- IP Network Camera
- PC Soundcard
- Video Server
or other audio receiving devices that accept line level audio (0dB@600Ω)

CONTENTS OF ASK-4® #302
- 2 Verifact® A Microphone
- 1 Model IF-2
- 1 Model AD-1
- 2 Single RCA Cable
- 2 RCA to 3.5mm Mono Adapter

Omni-directional Microphone
Audio Interface Adapter
12 Vdc power supply
For connection to DVR, VCR, etc.
For connection to a Sound Card, IP Network Camera, or Video Server with 3.5mm audio input

WIRING REQUIREMENTS
2 Conductor shielded cable, 22 gauge with a 24 gauge drain wire
NOTE: Unshielded cable is not satisfactory for audio systems

West Penn 452 or equivalent
WIRING REQUIREMENTS
2 conductor shielded, 22 gauge, with a 24 gauge drain wire.
West Penn 452 or equivalent

MICROPHONE INSTALLATION - MECHANICAL
Model A Microphone is designed for surface mounting to a ceiling or wall. Microphone will pick up sounds 15’ away from all directions. For best results, install microphone as close to desired area of coverage as possible. Avoid mounting microphone to ceiling heights in excess of 10’, or near air vents, refrigeration units, or other audio interferences.

NOTE: Make wiring connection on back side of microphone before installing microphone to ceiling or flat surface.

MICROPHONE INSTALLATION - ELECTRICAL
Located on back side of microphone is a terminal block marked A, B and C.
A is 12 Vdc
B is Audio
C is Ground (common)
Using recommended wiring, connect as follows:
RED wire to terminal A  (12Vdc)
BLACK wire to terminal B  (Audio)
BARE wire to terminal C  (Ground)

NOTE: If using wiring from other manufacturers, color code may vary.
Repeat connections for the second microphone.

LOUROE MODEL IF-2 AUDIO INTERFACE ADAPTER
MECHANICAL INSTALLATION - MODEL IF-2 INTERFACE ADAPTER
The IF-2 Interface Adapter serves as an interface device between the microphone and the audio receiver (DVR/VCR, PC sound card, etc.). The IF-2 can be installed several ways:
   1) Wall mounted close to DVR/VCR or IP Network Camera, etc.
   2) Attached to side of the receiving device using two-way ¼” adhesive tape
      (not provided)

MICROPHONE CONNECTION TO IF-2 INTERFACE ADAPTER
Bring in other end of wiring from microphone and connect to “Microphone Input 1” terminal block on IF-2 marked, A, B and C. Connect as follows:
   Terminal A of microphone to terminal A of IF-1  12Vdc
   Terminal B of microphone to terminal B of IF-1  Audio Output
   Terminal C of microphone to terminal C of IF-1  Ground (common)
Repeat connections for zone 2 for the second microphone by connecting it to Microphone Input 2 terminal block.

To apply power to the system, Model AD-1 12Vdc power supply is included. First connect small end (female 90° plug) into 12Vdc jack on IF-1, then connect 2-prong power block to a standard 110Vac outlet or power strip.

CONNECTION BETWEEN IF-2 INTERFACE ADAPTER AND DVR/VCR WITH RCA TYPE AUDIO CONNECTIONS
To make connection to DVR/VCR, plug the RCA cable (supplied) into the RCA type audio output jack located on the output side of Model IF-2. Connect other end of RCA cable to the DVR/VCR’s “AUDIO IN” jack (see drawing on page 4). Repeat connection for zone 2 or the second output of the IF-2.

CONNECTION BETWEEN IF-2 AND AN IP NETWORK CAMERA, DVR, VIDEO SERVER WITH 3.5mm MONO TYPE AUDIO CONNECTIONS
To make connection to IP Network Camera, plug the RCA to 3.5mm mono adaptor (supplied) into one end of the RCA cable and connect that end to the camera audio input. Connect the other end with RCA plug to the Audio Out 1 located on the output side of IF-2. Repeat connections for zone 2 or for Audio Out 2, the other output of the IF-2 (see drawing on page 5).
INTERCONNECTION DIAGRAM
FOR
LOUROE ASK-4® 302 AUDIO MONITORING SYSTEM AND DVR/VCR, VIDEO SERVER, ETC.
WITH RCA AUDIO INPUT

RCA Plug used for this application

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

NOTE: Unshielded cable is not satisfactory for audio systems

West Penn 452 or equivalent
INTERCONNECTION DIAGRAM
FOR LOUROE
ASK-4® 302
AUDIO MONITORING SYSTEM
AND AN IP NETWORK CAMERA, DVR, VIDEO SERVER WITH
3.5mm MONO AUDIO INPUT

3.5mm Mono cable used with this application

RCA to 3.5mm mono adapter plug

RCA to RCA cable

Model AD-1
+12 Vdc
POWER
SUPPLY

Model IF-2
Interface Adapter

IP NETWORK CAMERA
SENSITIVITY SWITCH OF MICROPHONE

For special installations that require less microphone sensitivity, a sensitivity switch has been added to the microphone pre-amp (PC board) and has two positions - N and L:

- N represents normal sensitivity (0dB output into 1KW)
- L represents low sensitivity (-6dB output into 1 KW)

**NOTE:** Louroe™ Verifact microphones are always shipped with the sensitivity switch in normal (N) position. Do not change unless required.

To make an adjustment, use a small screwdriver and move slide switch from N to L. Sensitivity switch is located on the backside of Verifact™ A Microphone.

### SPECIFICATIONS (IF-2 Interface Adapter)

- **Input impedance**: 17.5 KΩ @ 1kHz
- **Output impedance**: 600Ω @1kHz
- **Power supply**: 12Vdc, 500 mA
- **Dimensions**: 6 1/8”L x 4 5/8”W x 1 3/8”H
- **Audio output gain**: up to +10dB
- **Weight**: 7 oz

### SPECIFICATIONS (Microphone - Model A)

- **Type**: Electret Condenser
- **Output**: Line Level (0 dB 600Ω @ 1 kHz)
- **Frequency response**: 50 Hz to 15 kHz ± 1 dB
- **Current drain**: 10 mA
- **Supply voltage**: 12Vdc
- **Dimensions**: 4”Dia x 1 ½”H
- **Weight**: 3.5 oz
- **Shipping Weight**: 2 lbs
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:
MANUFACTURED IN THE USA