

JACQUES Ambient Noise Monitor

Description

The JACQUES ANM-1 is a SPL meter field device. It mounts to a wall or ceiling and provides Sound Pressure Level readings to a remote location.

Features

- High quality microphone pickup
- Selectable A and C weighting
- Water and vandal resistant construction
- Instantaneous or average measurements
- RS-485 bus for communication – up to 127 devices per bus
- Fastened with “Snake eye” security screws
- Diagnostic balanced audio output
- Vertical or ceiling mount
- Compatible with JAG-S1 Audio Gateway Server
- RS-485 protocol available for third party development upon NDA request

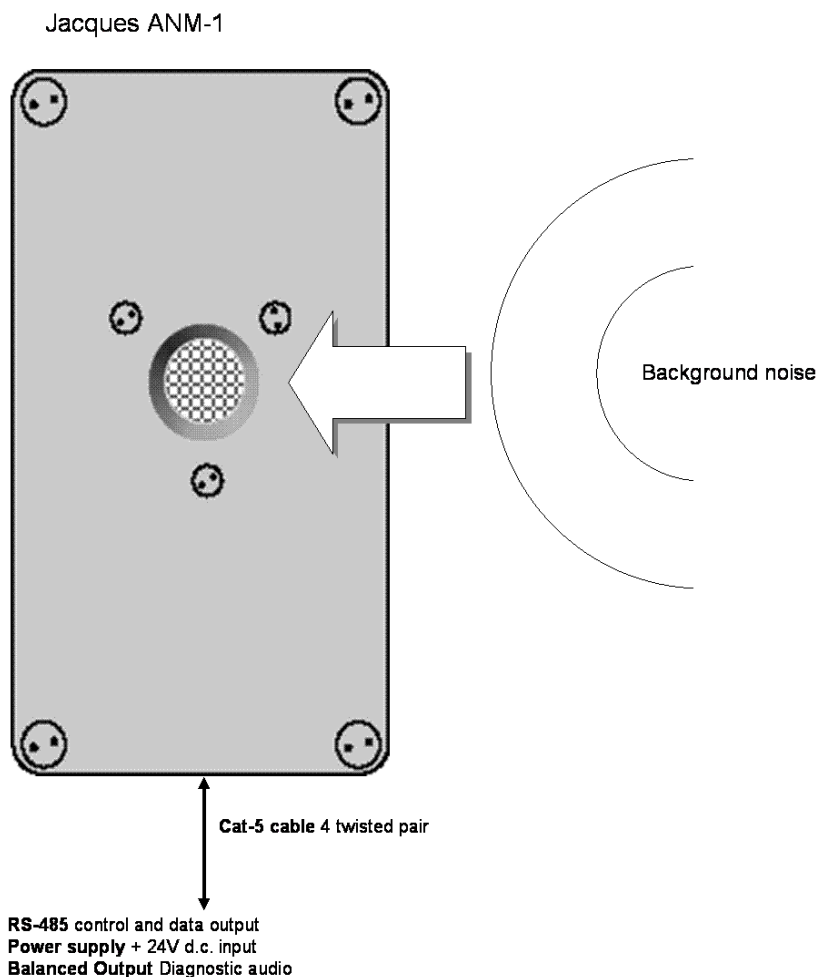


Applications

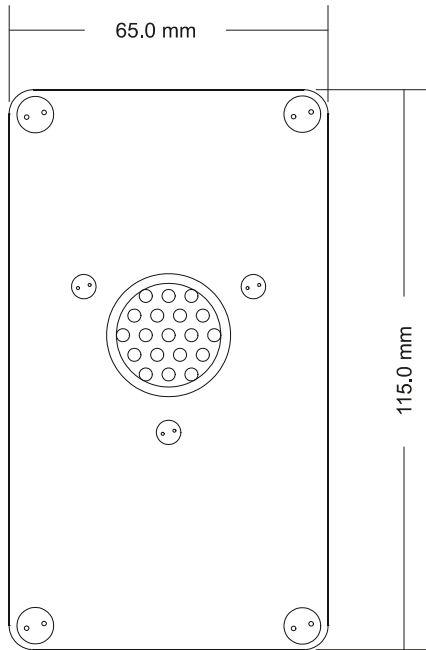
- PA system sound reinforcement
- Fighting and shouting alarms
- Workplace health and safety control
- Intruder security systems

Operation

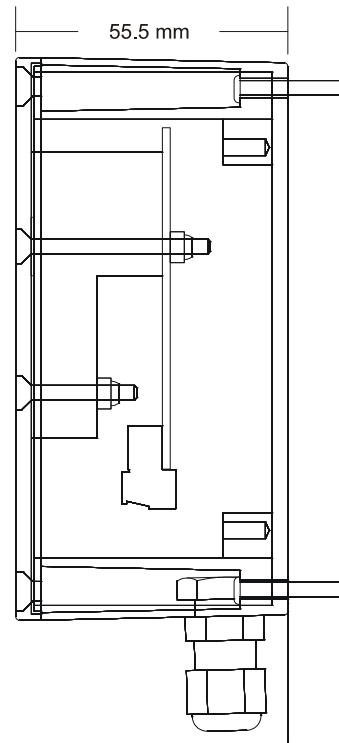
- The background noise of an area is picked up by the ANM-1 microphone
- The pickup signal is weighted by an A or C filter (*selectable by RS-485*)
- The signal is computed into an SPL (*Sound Pressure Level*) level by a calibrated process.
- The SPL is averaged over a period (*if required*)
- The SPL level is retrieved by the host via RS-485
- The host can command the ANM-1 to output a preamplified, balanced microphone signal for diagnostic purposes.



Mounting Information

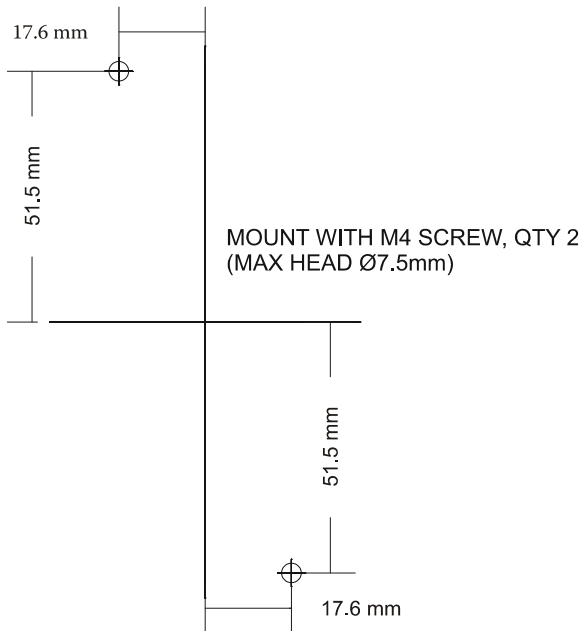


VERTICAL INSTALLATION



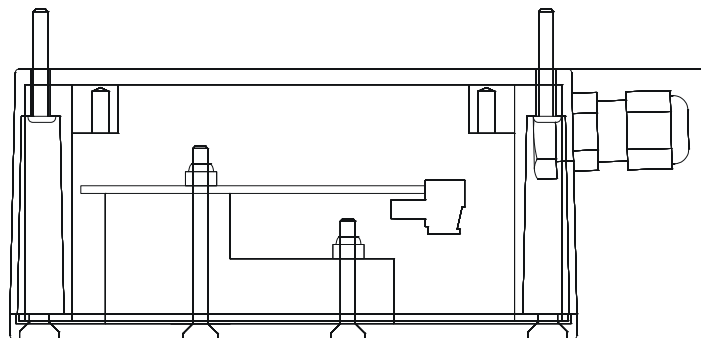
SURFACE MOUNTED
TYPICAL INSTALLATION

NOTE: CABLE GLAND TO BE FITTED BY INSTALLER



MOUNT WITH M4 SCREW, QTY 2
(MAX HEAD Ø7.5mm)

MOUNTING POSITIONS



CEILING MOUNTED
TYPICAL INSTALLATION

Specifications

General

Power source	(12 – 32) V d.c., 24 V d.c. nominal
Maximum current	50 mA
Dimensions (W x H x D)	(65 x 115 x 54) mm
Weight	0.4 kg

Audio

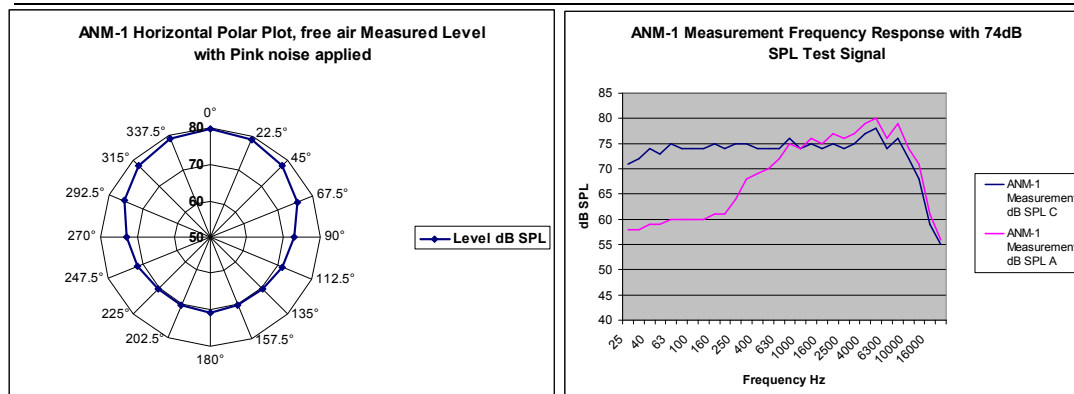
Measured sound pressure level	(54 – 104) dBSPL, in 1 dBSPL steps
Filter type	C- and A-weighted, selectable remotely via RS-485 command
Averaging	(1 – 255) s or off, selectable remotely via RS-485 command
Frequency response	see plots below

Interfaces

RS-485 interface	Half duplex, 9600 baud, 8N1
RS-485 bus address range	1 – 127, selectable via the dip switch
RS-485 bus termination	On / Off, selectable via the dip switch
Audio output	Balanced, relay coupled (controlled via RS-485 command); for diagnostics purposes
Input connector	8-way 3.81mm pitch pluggable terminal block for RS-485, audio output and power

Environmental

Operating temperature	(0 – +55) °C
Storage temperature	(-10 – +70) °C
Operating humidity	5% - 95% RH (non-condensing)
Storage humidity	5% - 95% RH (non-condensing)
EMC compliance	AS/NZS CISPR 22, Class A (C-tick, N12046)



Ordering Information

50929	Jacques Ambient Noise Monitor (ANM-1)
HW235	Lid mounting security screw (M4 x 20 mm snake-eye type)
J5130	8-way pluggable termination block, 3.81 mm pitch
CA088	12 mm cable grommet

Rev 09/03/06