



AMETEK® Models AC-1 and AC-94 Acoustical Calibrators

- ❑ *Field Calibrate MARK Series Noise Monitoring Instruments*
- ❑ *Two Models*
 - AC-1 (94 dB, 114 dB and 124 dB)
 - AC-94 (94 dB)
- ❑ *Accurate to ± 0.4 dB*
- ❑ *Battery Operated with Status Indication*
- ❑ *Lightweight, Convenient to Use*

PRODUCT DESCRIPTION

AMETEK acoustical calibrators are ideal for field calibration of AMETEK's MARK Series noise dosimeters or other noise monitoring instruments. AMETEK offers two models of acoustical calibrators:

- ❑ Model AC-1
- ❑ Model AC-94

Model AC-1

The Model AC-1 acoustical calibrator supplies three dB levels for noise calibration: 94 dB, 114 dB and 124 dB. The instrument provides an accuracy of ± 0.4 dB at sea level and 88°F (20°C). The battery-powered unit uses a 9V NEDA 1604 battery with a 10-hour continuous battery life cycle. A battery indicator provides clear indication of battery status. The unit is equipped to receive a standard 0.5-inch (1.27 cm) microphone, however, adapters for the calibrator are available for four different size microphones.

Model AC-94

The Model AC-94 shares the features of the Model AC-1, however this unit has only one dB level for noise calibration (94 dB).

Both AC Models are lightweight and compact. Units weigh only 10 ounces (258 g). These models may be ordered separately or be provided as part of a MARK Series Dosimeter Calibrator Kit.



To receive a calibration and/or repair quote-RMA from R.A.E. Services Inc.
Click here>> www.raeservices.com/services/quote.htm

SPECIFICATIONS

Frequency

1kHz \pm 2%

Output Levels

Model AC-1: 94.0, 114.0 and 124.0 dB

Model AC-94: 94.0 dB

Accuracy

\pm 0.4 dB at 760 mm Hg (sea level) and 68°F (20°C). Total cumulative accuracy is \pm 0.5 dB at -2000 to 12,000 feet (-610 to 3660 meters) altitude at 32° to 122°F (0° to 50°C).

Microphone Size

Standard: 0.5-inch (1.27 cm)

Adapters: 0.26-inch (0.66 cm)

0.52-inch (1.32 cm)

0.936-inch (2.38 cm)

1.125-inch (2.86 cm)

Battery

9V, NEDA 1604

10-hour continuous use

Temperature Range

Operating: 32° to 122°F (0° to 50°C)

Storage¹: -20° to 149°F (-30° to 65°C)

Note: ¹ With battery removed

Dimensions

2.0 x 1.75 x 5.5-inch

(5.1 x 4.4 x 14.0 cm)

Weight

10 ounces (258g)



MARK Series Dosimeter Kits

Self-contained dosimeter kits complete with:

- MARK Series Dosimeter
- AC-94 Calibrator (AC-1 optional)
- Microphone Boom
- Windscreen
- Tool Kit
- Two 9V Alkaline Batteries
- Carrying Case



MARK Series Survey Packs

Self-contained dosimeter kit complete with:

- MARK 3 Series Dosimeter
- CPI PLUS Computer Interface and Data Logger
- AC-94 Calibrator (AC-1 optional)



MARK Series Travel 5 Packs

Complete kits MARK Series dosimeters and all accessories including:

- Five (5) MARK Series Dosimeters
- AC-94 Calibrator (AC-1 optional)
- Seven (7) Windscreens
- Five (5) Microphone Booms
- Six (6) 9V Alkaline Batteries
- Tool Kit
- Carrying Case

The Travel 10 Pack comes with ten (10) MARK Series dosimeters, Eleven (11) batteries, Fourteen (14) windscreens and ten (10) microphone booms.

Note: Travel kits may be specified with any MARK Series dosimeter. The AC-1 acoustical calibrator may also be optionally specified.

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AC SERIES ACOUSTICAL CALIBRATORS

Order Number Description

Base Units

H5310 AC-1 Acoustical Calibrator (94, 114, 124 dB)
H5253 AC-94 Acoustical Calibrator (94 dB)

Dosimeter Kits

Single units are shipped complete with microphone boom, windscreen, tool kit, batteries, AC Series acoustical calibrator and carrying case.

H5317 MARK-1 Kit with AC-94 Acoustical Calibrator
H5331 MARK-2 Kit with AC-94 Acoustical Calibrator
H5337 MARK-3 Kit with AC-94 Acoustical Calibrator

H5351 MARK-1 Kit with AC-1 Acoustical Calibrator
H5352 MARK-2 Kit with AC-1 Acoustical Calibrator
H5353 MARK-3 Kit with AC-1 Acoustical Calibrator

Travel Packs

Travel Packs include MARK Series dosimeters, AC Series acoustical calibrator, microphone booms, windscreens, batteries, tool kit and carrying case.

H5305 5 Pack, MARK-1 Series with AC-94 Acoustical Calibrator
H5329 5 Pack, MARK-2 Series with AC-94 Acoustical Calibrator
H5339 5 Pack, MARK-3 Series with AC-94 Acoustical Calibrator

H5354 5 Pack, MARK-1 Series with AC-1 Acoustical Calibrator
H5355 5 Pack, MARK-2 Series with AC-1 Acoustical Calibrator
H5356 5 Pack, MARK-3 Series with AC-1 Acoustical Calibrator

H5304 10 Pack, MARK-1 Series with AC-94 Acoustical Calibrator
H5330 10 Pack, MARK-2 Series with AC-94 Acoustical Calibrator
H5340 10 Pack, MARK-3 Series with AC-94 Acoustical Calibrator

H5357 10 Pack, MARK-1 Series with AC-1 Acoustical Calibrator
H5358 10 Pack, MARK-2 Series with AC-1 Acoustical Calibrator
H5359 10 Pack, MARK-3 Series with AC-1 Acoustical Calibrator

Survey Packs

Survey packs include MARK-3 Series dosimeter with CPI PLUS computer interface and data logger

H5388 MARK-3 with CPI PLUS Computer Interface/Data Logger, No Carrying Case
H5460 MARK-3 with CPI PLUS Computer Interface/Data Logger, AC-94 Acoustical Calibrator, No Carrying Case
H5485 MARK-3 with CPI PLUS Computer Interface/Data Logger, AC-1 Acoustical Calibrator, No Carrying Case

H5439 MARK-3 with CPI PLUS Computer Interface/Data Logger, AC-94 Acoustical Calibrator and Carrying Case
H5440 MARK-3 with CPI PLUS Computer Interface/Data Logger, AC-1 Acoustical Calibrator and Carrying Case



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Click here>> www.raeservices.com/services/quote.htm

Calibration & Repair
www.raeservices.com

AMETEK
TEST AND CALIBRATION INSTRUMENTS

AMETEK is a leading global manufacturer of electrical and electromechanical products for niche markets. Listed on the New York Stock Exchange (AME) since 1930, AMETEK's annual sales are approaching \$1 billion. Operations are in North America, Europe and Asia, with about one-third of sales to markets outside the United States.

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**ISO 9001
Manufacturer**

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Pub Code SS-NM-1310-0799
Issued 07/99

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Printed in U.S.A.