

Quick Guide

GRAS 147AX CCP Rugged Pressure Microphone

Description

The 147AX is a microphone set which is resistant to shock, high temperatures and moisture. It has an integrated, strain-relieved cable, also resistant to high temperatures and moisture. The protection grid has a built-in filter that protects the diaphragm against dirt, dust and moisture.



Fig. 1. 147AX with mounting disc, protection grid and windscreen.

Delivered Items

147AX CCP X-Rugged Microphone Set, with integrated cable	
MagMount™ Mounting Disc	RA0392
Double-sided adhesive tape for mounting disc	DB0481

Optional Items

Dust, oil and water resistant protection grid	RA0390
MagMount™ Mounting Disc, 5 pcs.	RA0392-1
MagMount™ Mounting Disc, 50 pcs.	RA0392-10
Cable Replacement Kit, 5 meters	RA0393
Cable Replacement Kit, 10 meters	RA0394
Cable Replacement Kit, 20 meters	RA0395
Cable Replacement Kit, Custom Length	RA0396
Windscreen for 147AX, 1 pc.	AM0388-1
Windscreen for 147AX, 5 pcs.	AM0388-2
Calibration Adapter	RA0391
Multifunction Sound Calibrator	42AG



Maintenance

Mounting

The back plate of the preamplifier house is magnetic and provides a strong attachment to the mounting disc or similar metallic surface. The disc can be attached to the structure (e.g. walls of the engine compartment) using double-sided adhesive tape, glue or a screw.

Once the mounting disc is in place, the microphone can easily be mounted and dismantled without the use of tools. A center guide ensures precise and easily repeatable positioning, even when you cannot see the position.

Replacing the cable

To ensure a resilient connection, the cable screws into the preamplifier housing establishing electrical contact and strain relief at the same time.

If you need to replace the cable, you must use the tool that is part of the cable replacement kits (see page 1) to unscrew the old cable and to mount the new. Ensure that the cable screw is properly tightened without over-tightening - use finger force only.



Fig. 2. Screw-mounting of the cable.

Maintenance

To ensure trustworthy measurements you should inspect the grid for contamination (dust, dirt, etc.) whenever the microphone has been used in challenging conditions. When contaminated, the grid must be replaced. The windscreen should be used as extra protection in very dirty conditions.

Calibration

The microphone set is factory calibrated with the 1/2" protection grid mounted.

For calibration, we recommend the GRAS 42AG Multifunction Sound Calibrator; the RA0391 Calibration Adapter is needed for calibration with the grid mounted.

Warranty and Service

All parts are manufactured and assembled in Denmark by skilled and dedicated operators in a verified clean-room environment. Our warranty against defective materials and workmanship is 5 years, the windscreen and the protective grids are consumables covered by a 6 month warranty.

GRAS offers a complete overhaul including calibration at a reasonable price.