

HA-LFS11K1M4电机为客户着想

产品名称	HA-LFS11K1M4电机为客户着想
公司名称	上海持承自动化设备有限公司
价格	149.00/台
规格参数	三菱:11KW LFS11K:135V 日本:JAPAN
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产品详情

HA-LFS11K1M4电机为客户着想

HA-LFS11K1M4电机样本资料、HA-LFS11K1M4电机报价快快

GRAS 46AD 1/2" CCP Pressure Standard Microphone Set, High Sensitivity

Freq range: 3.15 Hz to 10 kHz Dyn range: 18 dB(A) to 138 dB Sensitivity: 50 mV/Pa

Technology Introduction

The 46AD is a pressure microphone set and as such optimized for acoustic measurements of the sound source in a closed coupler or the measurement of sound pressure at a boundary or wall; in which case the microphone forms part of the wall and measures the sound pressure on the wall itself.

The medium frequency range makes it ideal for general acoustic diagnostics.

Regarding temperature range, see the Specifications. Should higher temperature limits be required, we recommend considering the GRAS probe microphones where the microphone and preamplifier can be isolated from the hot source.

A front-vented version is available, 46AD-FV 1/2" CCP Pressure Standard Microphone Set, Front Vented.

Design

The GRAS 46AD is a high-performance standard microphone set. In our clean-room environment the set is assembled and sealed with a label. However, the microphone set can be dismounted, if you wish to use the components separately.

MicrophoneThe microphone cartridge is the high-quality IEC 61094 WS2P standardized GRAS 40AD 1/2" Prepolarized Pressure Microphone, High Sensitivity, designed for long-term reliability in multiple environments.

PreamplifierThe preamplifier is the GRAS 26CA Preamplifier which is inclusive TEDS and based on our well-known circuit board substrates. In the industry these are famous for their low self-noise, wide frequency and excellent slew rate performance.

Compatibility

To perform as specified, the GRAS 46AD microphone set requires a constant current input module that can deliver 4 mA and 24 V unloaded CCP voltage supply. If the constant current supply is lower, the capability of driving long cables is reduced and consequently the upper frequency is reduced. If the voltage supply is lower it will influence the upper dynamic range.

The microphone set is terminated with a BNC connector. Cables with BNC connectors of various types and lengths are available in standard as well as customized lengths.

The 46AD is IEEE 1451.4 TEDS v. 1.0 compliant. If your measurement platform supports Transducer Electronic Data Sheets you will be able to read and write data like properties and calibration data.

System verification

The functionality of TEDS is very useful to determine which microphone is connected to which input channel. However, it is not a check of whether the microphone is within specifications or not. For daily verification and check of your measurement setup, we therefore recommend using a sound source like the GRAS 42AG Sound Calibrator.

For proper sensitivity calibration we recommend using a reference sound source like the GRAS 42AP Intelligent Pistonphone.

Service

Should you by mistake damage the diaphragm on a GRAS microphone we will in most cases be able to exchange it at a very reasonable cost and short turn-around time. This not only protects your investment but also meets your quality assurance department since you do not have to worry about new serial numbers etc.

Calibration

When leaving the factory, all GRAS microphones have been calibrated in a controlled laboratory environment using traceable calibration equipment. Depending on the use, measurement environment and internal quality control programs we recommend that the microphone is recalibrated at least once a year.

We offer two kinds of calibration as an optional after-sales service: GRAS Traceable Calibration and GRAS Accredited Calibration.

GRAS Traceable Calibration is a traceable calibration performed by trained personnel under controlled conditions according to established procedures and standards. This is identical to the rigorous calibration that all GRAS microphones are subjected to as an integral part of our quality assurance.

GRAS Accredited Calibration is performed by the GRAS Accredited Calibration Laboratory that has been accredited in accordance with ISO 17025 by DANAK, the Danish Accreditation Fund.

If you want a new microphone set delivered with an accredited calibration instead of the default factory calibration, specify this when ordering.

Learn more at [gras/calib](https://www.gras.com/calib).

Quality and warranty

GRAS microphone sets are made of components from our proven standard portfolio and are all manufactured of high-quality material and branded parts that were chosen and processed to ensure life-long stability and robustness.

All parts are manufactured and assembled at the factory in Denmark by skilled and dedicated operators in a verified clean-room environment. The microphone diaphragm, body and unique protection grid are made of high-grade stainless steel and make the microphone set resistant to physical damage as well as corrosion caused by aggressive air or gasses.

This, together with the enforced gold-plated microphone terminal guarantees a highly reliable connection. Thanks to the high quality, our warranty against defective materials and workmanship is 5 years.

Specifications

Frequency range (± 1 dB)

Hz

12.5 to 7.5 k

Frequency range (± 2 dB)

3.15 to 10 k

Dynamic range lower limit with GRAS preamplifier

dB(A)

18

Dynamic range upper limit with GRAS CCP preamplifier

dB

138

Set sensitivity @ 250 Hz (± 2 dB)

mV/Pa

50

dB re 1V/Pa

-26

Output impedance

<50

Output Voltage Swing, min. @ 24-28 V CCP voltage supply

V_p

8

Power supply min. to max.

mA

2 to 20

Power supply min. to max. (single/balanced)

V

N/A

DC bias voltage, typ.

12

Microphone venting

Rear (Front on request)

IEC 61094-4 Compliance

WS2P

Temperature range, operation

° C / ° F

-30 to 85 / -22 to 185

Temperature range, storage

-40 to 85 / -40 to 185

Temperature coefficient @250 Hz

dB/ ° C / dB/ ° F

-0.01 / -0.006

Static pressure coefficient @250 Hz

dB/kPa

-0.01

Humidity range non condensing

% RH

0 to 90

Humidity coefficient @250 Hz

dB/% RH

-0.001

Influence of axial vibration @1 m/s

dB re 20 Pa

62

TEDS UTID (IEEE 1451.4)

27 v. 1.0

Connector type

BNC

CE/RoHS compliant/WEEE registered

Yes/Yes/Yes

Weight

g / oz

33 / 1.164

Typical frequency response

Free-field corrections for different angles of incidence

GRAS Sound & Vibration reserves the right to change specifications and accessories without notice.

Dimensions

Ordering info

GRAS 46AD

1/2" CCP Pressure Standard Microphone Set. This is the "standard" rear vented version.

GRAS 46AD-FV

1/2" CCP Pressure Standard Microphone Set, Front Vented. This one is identical to 46AD, but has front venting.

Optional items GRAS AA0035

3 m BNC - BNC Cable

GRAS AA0039-CL

Customized length BNC - BNC Cable

GRAS AL0008

1/2" Microphone Holder, POM

GRAS AL0012

1/2" Microphone Holder, Stainless Steel

GRAS AL0005

Swivel head

GRAS AL0006

Tripod

GRAS RA0020

1/2" Nosecone

GRAS AM0069

Windscreen for 1/2" Microphones

GRAS RA0131

1/2" Rain protection cap

GRAS 12AL

1-Channel CCP Power Module with A-weighting filter

GRAS 12AQ

2-Channel Universal Power Module with signal conditioning and PC interface

GRAS 42AG

Multifunction Sound Calibrator, Class 1

GRAS 42AP

Intelligent Pistonphone, Class 0

GRAS CA0029

Traceable Calibration of Microphone Set

GRAS CA2301

Accredited Calibration of Microphone Set

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