

48LX-1 UTP MICROPHONE, MEDIUM PRESSURE

Ultra ohut tarkkuusmikrofoni, jossa yhdistyy perinteisen mittausmikrofonin kyvykkyydet ja 1 mm paksuus. Maailman ohuin kondensaattorimikrofoni.

MSP_VIRTUEMA RT_MANUFACT URER	GRAS
MSP_VIRTUEMA RT_SKU:	48LX-1
Herkkyys:	0.6 mv/Pa
Taajuusalue:	10 hz - 70 kHz
Dynaaminen alue:	54 - 170 dB
Tyyppi:	Ultra thin mikrofonit

FLAT - FAST - PRECISE

The World's Thinnest Condenser Microphones

Laminaarisen ja turbulentin ilmvirran akustiset mittaukset edellyttävät matalaproofilisia antureita äänikentän häiriöiden minimoiseksi.

Siksi olemme GRAS: ssa kehittäneet UTP-mikrofonit - Ultra Thin Precision -mikrofonit. Ne yhdistävät klassisen mittausmikrofonin edut - laaja taajuusalue, tarkkuus ja toistettavuus - erittäin pieneen kokoon.

GRAS 48LX-1 on vain 1 mm korkea, ja siksi se on ihanteellinen mittauksiin pintarakenteissa ja turbulenssissa.

EXPLORE THE BENEFITS

The very small things which make the BIG difference



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Quality Data

UTP provides accurate data from precision measurement microphones manufactured to narrow specifications.

Low Profile

With a height of 1 mm the door to a whole new world of what can be measured in boundary layers and turbulent flow opens.

Easy Mounting and Verification

As described below, mounting is easy, and once mounted, the setup can easily and quickly be verified in-situ, a major advantage when you want to check the integrity of your measurement setup.



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Small Form Factor

48LA can be used in small or difficult-to-access spaces where conventional microphones must give up.

Cost-saving Solution

Easy mounting, CCP interface with integral cabling and in-situ verification all add up to reduced setup time and faster measurements - with reliable data.

Flow-optimized Fairings

Fairings with a rise angle of 6.5 or 7.5 degrees ensure minimal disturbance to the sound field/airflow.

Easy Mounting and In-Situ Verification

48LA is easy to mount and remove.

It can be mounted in a hard fairing which can be used as a permanently mounted dock. A click-mechanism ensures easy and stable mounting. The microphone can easily be removed, leaving the mounting position ready for future measurements. The fairing is secured with double-sided adhesive tape.

Fast and reliable in-situ verification saves time and increases confidence.

A special verification adapter with a soft cushion allows for quick, easy, and reliable in-situ verification. Four distance spacers ensure that the correct volume is achieved and that this volume can easily be reproduced. Even on curved surfaces, this verification method is so precise that dismounting is not necessary.



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MSP_VIRTUEMART_TECHDETAILS



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Specifications

Frequency range (± 1 dB)	Hz	20-40 k
Frequency range (± 3 dB)	Hz	10-70 k
Dynamic range lower limit (microphone thermal noise)	dB(A)	54
Dynamic range upper limit	dB	170
Set sensitivity @ 250 Hz (± 3 dB)	mV/Pa	0.6
Set sensitivity @ 250 Hz (± 3 dB)	dB re 1V/Pa	-64.4
Output impedance	Ω	<50
Power supply min. to max.	mA	2 - 10
Microphone venting		Front
Temperature range, operation	$^{\circ}\text{C} / ^{\circ}\text{F}$	-20 to 85 / -4 to 185
Temperature range, storage	$^{\circ}\text{C} / ^{\circ}\text{F}$	-40 to 85 / -40 to 185
Temperature coefficient @250 Hz	dB/ $^{\circ}\text{C}$ / dB/ $^{\circ}\text{F}$	-0.03
Static pressure coefficient @250 Hz	dB/kPa	-0.0003
Humidity range non condensing	% RH	0 to 80
Humidity coefficient @250 Hz	dB/% RH	-0.01
Influence of axial vibration @1 m/s ²	dB re 20 μPa	73
TEDS UID (IEEE 1451.4)		I27-0-0-0U
Weight	g / oz	1 / 0.035 (excl. cable); 18 / 0.63 (incl. cable)

MSP_VIRTUEMART_DELIVERYCONTENTS

- Gras 48 LX-1 UTP mikrofoni, Medium Pressure, 3 metrin kaapelilla ja vahvistimella
- Kovareunainen asennusadapteri mallille 48LA / 48LX-1 napsautuskiinnikkeellä
- Kalibrointitodistus

MSP_VIRTUEMART_PRODDOCS

1. [Esite 48 LX-1](http://www.mip.fi/images/docs/fi/gras_48lx-11.pdf), (URL: http://www.mip.fi/images/docs/fi/gras_48lx-11.pdf)
2. [Esite UTP mikrofoni perhe](http://www.mip.fi/images/docs/fi/utp-auto-brochure_v72.pdf), (URL: http://www.mip.fi/images/docs/fi/utp-auto-brochure_v72.pdf)

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