

## GRAS 47HC 1/2" CCP LOW-NOISE MICROPHONE SYSTEM

Low noise emission becomes increasingly important for all kinds of machines, equipment and consumer products, and quiet products are often preferred over more noisy ones. It therefore becomes increasingly important to develop quiet products, and for this measurements close to the threshold of human hearing are needed.

<b>MSP_VIRTUEMA RT_MANUFACT URER</b>	GRAS
<b>MSP_VIRTUEMA RT_SKU:</b>	47HC
<b>Herkkyys:</b>	450 mV/Pa
<b>Tyyppi:</b>	Low-noise
<b>Halkaisija:</b>	1/2"
<b>Taajuusalue:</b>	10 Hz - 20 kHz
<b>Dynaaminen alue:</b>	6.5 dB - 100 dB

A standard 1/2" microphone with high sensitivity (50 mV) has a noise floor about 16 dB(A), and the useful measurement range therefore begins at about 19 dB(A). To measure below this level, a special low-noise system is needed.

The 47HC is a prepolarized low-noise microphone set which builds on GRAS' more than 20 years' of experience with state of the art low-noise measurement microphone systems. With this set, the performance previously reserved for externally polarized setups is now available for CCP powered systems.

With a sensitivity of 450 mV/pa and a noise floor at 6.5 dB(A) or lower, it opens up for measurement levels down to about 10 dB(A). Its upper dynamic limit is 100 dB below 8 kHz, 85dB from 8 kHz to 20 kHz

