

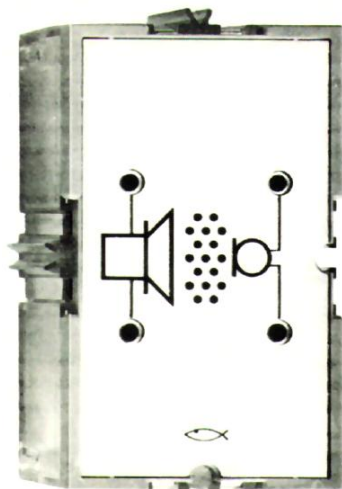
fischertechnik h4 ML

MICROPHONE- LOUDSPEAKER

Electronic-Module

Order No. 30814





Technical Data:

Frequency Range
Sensitivity
Capacitance Impedence

50 – 7000Hz
-68dB at 1kHz
1400pf

This module corresponds to the block of the same name in the hobby 4 kit. It is required for the expansion of the electronic construction kit ec and for special control tasks.

The so-called "crystal system" built into the module can be used as a sound receiver, the sound can be converted into electrical energy (as with a microphone) or as a sound generator, the electrical energy can be converted into sound vibrations (as with a loudspeaker). The module cannot fulfill both functions at the same time.

As a sound level sensor, the microphone can control electrical circuits (connection to E1 and E2) via an electronic basic module (30813). In this case, only the first pulse of a short or long-lasting noise is used. The microphone has the greatest "responsiveness" when the sound generator is just in front of the sound inlet and outlet opening of the module.

As a loudspeaker, the system emits only frequencies above 200Hz. Low frequencies, such as 50Hz mains frequency, are therefore not audible.

A supply voltage is not required. Nevertheless, current distribution rails are installed on the sides of the housing. The module can therefore be used at any point in the block system.

Further information can be found in the hobby experiment and Model books, volumes 4-2 and 4-3.

Translated by: Peter King,
www.procontechology.com.au
with the assistance of Google.