

Infrasound Calibrator Type IFC-2



Infrasound Calibrator Type IFC-2 is a battery-powered sound source for calibration of microphone systems for measuring infrasound signals. The calibrator enables to carry out calibration in lab or field conditions.

The Type IFC-2, when connected to the microphone of the tested instrument, generates sinusoidal sound pressure signal $SPL = 94 \text{ dB}$ (at 2 Hz or 20 Hz) in its pressure chamber.

Measurement of the amplitude of the output signal at these two frequencies allows for evaluation linearity of the frequency response of the entire microphone connection to the preamplifier. Additional sinusoidal electrical signal output enables to use the signal as the reference signal to evaluate of the phase shift values for both frequencies.

The set of the calibrator consists:

- Infrasound Calibrator Type IFC-2;
- user manual;
- warranty card;
- transporting bag.

We provide optional microphone adapter Type IFC-2AD for simultaneous calibration of 4 microphone channels (see on the bottom photo).

Technical Specifications

SPL under reference conditions:	$94 \text{ dB} \pm 0,6 \text{ dB}$
Frequency accuracy:	2 Hz or 20 Hz
Accuracy:	$\pm 0,5\%$
Non-linear distortion:	below 3%
Microphone diameter:	$\frac{1}{2}''$
Sinusoidal reference signal voltage:	$1 V_{RMS}$
Reference conditions:	
• ambient pressure:	101,325 kPa
• temperature:	23°C
• relative humidity:	50,00%
Power supply:	2 alkaline batteries 6LR61
Operating conditions:	
• temperature range:	10°C to 50°C
• static pressure range:	92 kPa to 104,0 kPa (acoustic pressure coefficient $k_p = 0,008 \text{ dB/hPa}$)
• humidity range:	20% to 80%
Dimensions (WxDxH):	(130 x 115 x 85) mm
Weight:	0,9 kg (batteries installed)

We reserve the right to change the specifications without prior notice.