



PRODUCT DATA

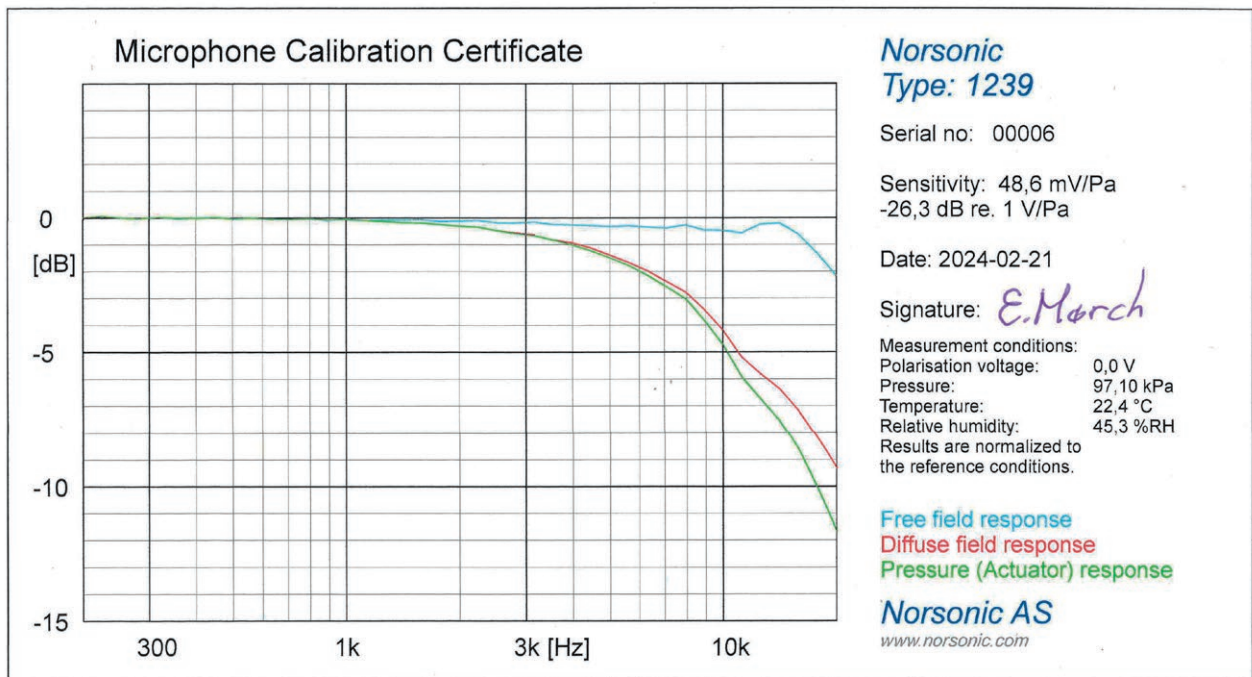
Free-field microphone Nor1239

The Nor1239 is a high quality free-field 1/2-inch electret microphone conforming to the Class 1 specifications for sound level meters specified in IEC 61672-1 class 1.

The microphone is compliant with working standard microphone specifications (IEC 61094-4 Type WS2F). It can therefore be used as a direct replacement for other prepolarized free field microphones with a nominal sensitivity of 40 to 50 mV/Pa.

The use of high-quality materials and an artificial aging process ensures an ultra-stable microphone, designed for the most demanding applications.

Each microphone is supplied with individual calibration certificates.



Technical specifications

Design	IEC 61094-4 Type WS2F
Frequency response	Free-field type
Nominal external diameter	1/2-inch (13.2 mm)
Sensitivity level (nominal value)	-27 dB (re. 1 V/Pa at 1 kHz) / 45 mV/Pa
Cartridge Capacitance (nominal value)	13 pF
Frequency range	10 Hz to 20 kHz
Maximum input sound pressure level	148 dB _{rms} @ 3% distortion
Inherent noise (A-weighted equivalent sound pressure level)	<16 dB
Temperature sensitivity (ref to 23°C @ 1 kHz)	<±0.35dB (-10°C to +50°C) <±0.5dB (-20°C to +60°C)
Humidity (ref 23°C , 50% RH)	< ±0.14 dB max. (at 1 kHz, no condensation, 90% RH or less)
Atmospheric pressure sensitivity (ref 101.325 kPa @ 250 Hz)	<±0.4 dB from 85 kPa to 108 kPa <±0.9 dB from 65 kPa to 85 kPa
Ambient temperature/humidity range for operation	-20°C to +60°C, 90% RH (no condensation)
Ambient temperature range for storage	-20°C to +60°C
Dimensions (with protection grid)	13.2 mm dia. × 14.3 mm height
Preamplifier threads	11.7 mm 60 UNS
Weight	4.7 g
Warranty	36 months
Applicable standards	CE, UKCA, China RoHS IEC 61672-1:2013 class1, ANSI/ASA S1.4-2014/Part 1 class 1, JIS C 1509-1:2017 class 1, JIS C 1516:2020 class 1