



PRODUCT DATA

Free-field microphone Nor1239

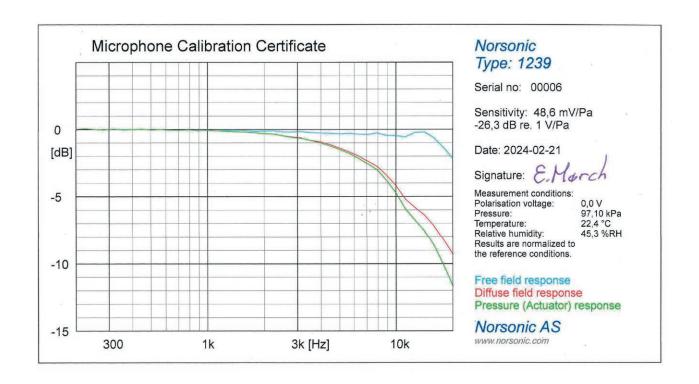
The Nor1239 is a high quality free-field 1/2-inch electret microphone conforming to the Class 1 specifications for sound level meters specified in IEC 61672-1 class 1.

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 50 mV/Pa.

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

Each microphone is supplied with individual calibration certificates.







Technical specifications

Design IEC 61094-4 Type WS2F		
Nominal external diameter 1/2-inch (13.2 mm) Sensitivity level (nominal value) -26 dB (re. 1 V/Pa at 1 kHz) / 50 mV/Pa Cartridge Capacitance (nominal value) 13 pF Frequency range 10 Hz to 20 kHz Maximum input sound pressure level 148 dBrms @ 3% distortion Inherent noise (A-weighted equivalent sound pressure level) < 16 dB Temperature sensitivity (ref to 23°C @ 1 kHz)	Design	IEC 61094-4 Type WS2F
Sensitivity level (nominal value) -26 dB (re. 1 V/Pa at 1 kHz) / 50 mV/Pa Cartridge Capacitance (nominal value) 13 pF Frequency range 10 Hz to 20 kHz Maximum input sound pressure level Inherent noise (A-weighted equivalent sound pressure level) -16 dB Temperature sensitivity (ref to 23°C @ 1 kHz) -20.35dB (-10°C to +50°C) -20.5dB (-20°C to +60°C) Humidity (ref 23°C, 50% RH) -20.14 dB max. (at 1 kHz, no condensation, 90% RH or less) Atmospheric pressure sensitivity (ref 101.325 kPa @ 250 Hz) -20°C to +60°C, 90% RH (no condensation) Ambient temperature/humidity range for operation -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 Applicable standards -26 dB (re. 1 V/Pa at 1 kHz) / 50 mV/Pa -20 kHz -20 kHz -20 kHz -20°C to +50°C) -20°C to +60°C -20°C to +60°C	Frequency response	Free-field type
Cartridge Capacitance (nominal value) Frequency range 10 Hz to 20 kHz Maximum input sound pressure level 148 dBrms @ 3% distortion Inherent noise (A-weighted equivalent sound pressure level) Temperature sensitivity (ref to 23°C @ 1 kHz) * 2±0.35dB (-10°C to +50°C) - 2±0.5dB (-20°C to +60°C) Humidity (ref 23°C, 50% RH) * 2±0.14 dB max. (at 1 kHz, no condensation, 90% RH or less) Atmospheric pressure sensitivity (ref 101.325 kPa @ 250 Hz) * 2±0.4 dB from 85 kPa to 108 kPa - 20°C to +60°C, 90% RH (no condensation) Ambient temperature/humidity range for operation 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 CE, UKCA, China RoHS IEC 61672-1:2013 class1, ANSI/ASA S1.4-2014/Part 1 class 1,	Nominal external diameter	1/2-inch (13.2 mm)
Frequency range10 Hz to 20 kHzMaximum input sound pressure level148 dBrms @ 3% distortionInherent noise (A-weighted equivalent sound pressure level)<16 dB	Sensitivity level (nominal value)	-26 dB (re. 1 V/Pa at 1 kHz) / 50 mV/Pa
Maximum input sound pressure level148 dBrms @ 3% distortionInherent noise (A-weighted equivalent sound pressure level)<16 dBTemperature 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 kPaAmbient temperature/humidity range for operation-20°C to +60°C, 90% RH (no condensation)Ambient temperature range for storage-20°C to +60°CDimensions (with protection grid)13.2 mm dia. × 14.3 mm heightPreamplifier threads11.7 mm 60 UNSWeight4.7 gWarranty36 monthsApplicable standardsCE, UKCA, China RoHS IEC 61672-1:2013 class 1, ANSI/ASA \$1.4-2014/Part 1 class 1,	Cartridge Capacitance (nominal value)	13 pF
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Temperature sensitivity (ref to 23°C @ 1 kHz)	Maximum input sound pressure level	148 dBrms @ 3% distortion
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CE, UKCA, China RoHS IEC 61672-1:2013 class1, ANSI/ASA S1.4-2014/Part 1 class 1,	Weight	4.7 g
Applicable standards IEC 61672-1:2013 class1, ANSI/ASA S1.4-2014/Part 1 class 1,	Warranty	36 months
	Applicable standards	IEC 61672-1:2013 class1, ANSI/ASA S1.4-2014/Part 1



