## **New Product**

## **MI-1271/3170**

**Microphone**/ Preamplifier

## **MI-1271M12**

**TEDS Microphone** 

## Feature

#### MI-1271/3170 : 1/2-inch Free-field type Electret Condenser Microphone/ Preamplifier

- Conforming to IEC 61094-4: 1995 Type WS2F
- •Wide temperature range from -30°C to +80°C by adopting titanium vibrating membrane and improving electret performance
- •Wide frequency range from 1 Hz to 20 kHz to reduce self noise.
- •CCLD type preamplifier (MI-3170) can be connected to CCLD instruments by BNC cable. Amplifier is not necessary.

#### MI-1271M12 : TEDS Microphone<sup>\*1</sup>

- •TEDS microphone and preamplifier integrated type
- •Enables simple unit calibration and reduction of the input error and processing time.

\*1 TEDS specification · · · IEEE 1451.4:2004 (Template: Microphone with built-in preamplifier Ver.1.0) \*2 TEDS supported models : DS-03xx, CF-9200/9400

## Major specification (MI-1271M12)

Nominal diameter	1/2-inch	Output connector	C02 (
Response type	Free sound field	Outer dimension	(013.2
Polarization	Back electret type		ψ13.2
Polarization voltage	0 V	Weight	Appro
Sensitivity	-26.0 ±1.5 dB re.1 V/Pa (50 mV/Pa)	Ins Accessory Ca	
Frequency range	1 Hz to 20 kHz (±2 dB)	,	Prean
Capacitance	12 pF (representative value)		
Maximum sound pressure level (Total harmonic distortion 3%)	135 dB or more	Reference environmental condition	23°C,
Intrinsic noise level (A-weighting)	14.0 dB (representative value)	Temperat	ure
Static pressure characteristics (250 Hz)	-0.013 dB/kPa	Example	:80°C
Temperature characteristics (250 Hz)	+0.005 dB/K	0.1	
Humidity characteristics (250 Hz)	-0.0004 dB/%	0.08	
Long term stability	0.03 dB/year or less (at reference environmental condition) 0.30 dB/year or less (at 80°C, 23%RH)	0.04 Sensitivity 0.02	-
Operating temperature range	-30°C to +80°C	variation	
Operating relative humidity range	0%RH to 90%RH (with no condensation)	(dB) -0.02 -0.04	
Storage temperature range	-40°C to +70°C	-0.06	
Storage relative humidity range	0%RH to 90%RH (with no condensation)	+0.08	
Input drive power	Constant current line drive (CCLD)	-0.1	1.111
Drive current	2 mA to 4.5 mA (rated value 4mA)	1 10	)
Drive power voltage	18 V to 26 VDC (rated value 24 V)		Flanse

Output connector	C02 (BNC)
Outer dimension	φ13.2 mm×91.9 mm
Weight	Approx. 41g
Accessory	Instruction manual × 1, Calibration chart × 1, Preamplifier holder (MI-0301)
Reference environmental condition	23°C, 50%RH, 101.3 kPa





# **ONO**SOKKI

**TEDS** microphone

Sensitivity information of microphone is easily sent to the connected **TEDS instruments (FFT** Analyzer etc.).\*2

test data

## Related products



### Signal cable (BNC-BNC connector)

<-30°C to +80°C> MX-1001 1.5m MX-1005 5m

MX-1020 20m

<0°C to +60°C> MX-2001 1.5m MX-2005 5m MX-2020 20m

\*MI-0301 microphone holder is standard accessory of the MI-3170, MI-1271M12.

## **Recommended sound calibrator**



Speaker type IEC60942 CLASS1 JIS C 1515 class 1 114 dB (Generation sound pressure level) 1 kHz (Generation frequency) SC-3120



Piston phone type IEC60942 CLASS1/C JIS C 1515 class 1 /C 114 dB (Generation sound pressure level) 250 Hz (Generation frequency)

### **Related parts**

· Windshield screen φ70mm

Wind noise is decreased by installing this windshield screen to the tip of a microphone. This is effective for the measurement in outdoor and the measurement near to an air outlet of an air conditioner.

Extension rod MI-0311 (200 mm)

Used to connect a microphone preamplifier.

Sound reflection of tripod or microphone stand can be reduced.

### Microphones etc.

■ 1/2-inch Microphone for general purpose MI-1235 (10 Hz to 20 kHz) (20 Hz to 8 kHz) ■ 1/2-inch Preamplifier for general purpose MI-3111 MI-3111 MI-3111 MI-3111 MI-3120 Recommended signal cable MX-2000 series (sold separately) MI-3130 NP-0130



1/4-inch Microphone for wide band

(10 Hz to 100 kHz)

1/4-inch Preamplifier

MI-3140

Recommended signal cable (sold separately) NP-0130 series + NP-0021 (conversion connector)

## Major application

- Sound measurement near to an engine
- Measurement of low-frequency sound
- $\cdot$  Cold start test, test at cold area
- Measurement on the engine bench which supports temperature variation etc.

Microsoft® and Windows® are registered trademarks of Microsoft Corporation in the United States and other countries.

Other product names and model names are trademarks or registered trademarks of each individual company.
 The copyrights are reserved by each individual company.



Ono Sokki Technology Inc.

Addison, IL. 60101, U.S.A. Phone : +1-630-627-9700 Fax : +1-630-627-0004

E-mail : info@onosokki.net

http://www.onosokki.net

2171 Executive Drive, Suite 400,

U.S.A.

#### WORLDWIDE ONO SOKKI CO., LTD.

 OKKI
 1-16-1 Hakusan, Midori-ku, Yokohama, 226-8507, Japan

 Phone : +81-45-935-3918
 Fax : +81-45-930-1808

 E-mail : overseas@onosokki.co.jp

THAILAND

Ono Sokki (Thailand) Co., Ltd. 1/293-4 Moo.9 T.Bangphud A.Pakkred, Nonthaburi 11120, Thailand Phone : +66-2-584-6735 Fax : +66-2-584-6740 E-mail : sales@onosokki.co.th INDIA

Ono Sokki India Private Ltd. Plot No.20, Ground Floor, Sector-3, IMT Manesar Gurgaon-122050, Haryana, INDIA Phone : +91-124-421-1807 Fax : +91-124-421-1809 E-mail : osid@onosokki.co.in

\* Outer appearance and specifications are subject to change without prior notice. URL: http://www.onosokki.co.jp/English/english.htm

#### P.R.CHINA

Ono Sokki Shanghai Technology Co., Ltd. Room 506, No.47 Zhengyi Road, Yangpu District, Shanghai, 200433, P.R.C. Phone : +86-21-6503-2656 Fax : +86-21-6506-0327 E-mail : admin@shonosokki.com