

# Data Acquisition Hardware

## MC3522 / MC3022 / MC3322 / MC3242 / MC3642

The data acquisition hardware produced by BSWA is suitable for collecting data for noise and vibration measurement. The input channels supply ICCP power current. It is very convenient to be used with all kinds of ICCP type microphones or other sensors. Most BSWA data acquisition hardware has output channels, and can be used for audio and impedance measurements.

Model	MC3522	MC3022	MC3322	MC3242	MC3642
Photos					
Input Channels	2	2	2	4	4
Max. Input Voltage (Vrms)	1	2	10 (x 0.1), 1 (x 1), 0.1 (x 10)	3.6	3.6
ICCP Power Supply (mA)	4	4	4	4	4
Output Channels	1, with 20W power amplifier	1	2	2	2
Max. Output Voltage (Vrms)	1.0	1.0	1.85	1.0	1.0
Standards (IEC 61672)	Class 2	Class 2	Class 2	Class 1	Class 1
Input Connector	BNC	BNC	BNC, 4mA/24V ICCP power supply (can be closed)	BNC	BNC
A/D Converter (bit)	16/24	16/24	16/24	24	24
Max. Sampling Frequency (Hz)	44.1k	44.1 k	8k / 16k / 3k2 / 44.1k / 48k / 96k	51.2 k	51.2 k
Gains	--	--	x 0.1, x 1, x 10	--	x 1, x 10, x 100
Internal Noise (dBA)	35	35	16dB(A) (20dB gain, external power supply)	30	18
Frequency Response (Hz) (Ref: 250 Hz, +0.5 dB/-1.0 dB)	20 ~ 20 k	20 ~ 20 k	6.3Hz ~ 46kHz (±0.5dB)	20 ~ 20 k	20 ~ 20 k
Measurement Range (dBA) (MP201)	35 ~ 125	35 ~ 125	24dBA ~ 140dBA (According to the IEC61672)	30 ~ 130	18 ~ 130
Connector to the Computer	USB	USB	USB	USB	USB
Power Requirement	USB (220 V or 110 V when power amplifier works)	USB	external power supply (7V~14V/500mA), USB power supply (5V/500mA)	USB	220V (with power adaptor)
Size (mm) (Length×Width×Height)	280 × 230 × 90	160 × 120 × 45	W170 xH43 x D125	240 × 190 × 50	280 × 230 × 90
Weight (g)	4000	610	640	1350	3600

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