# Frequency and time weighting meet IEC 61672, Class 1 SOUND LEVEL METER

#### Model : SL-4022

### *ISO-9001, CE, IEC1010*







The Art of Measurement

## DIGITAL SOUND LEVEL METER

WOUEL SL-4022	
FEATU	JRES

TEAT	UKES	
* Frequency weighting and time weighting are meet	* Max. Hold function for stored the maximum value on display.	
IEC 61672 Class1.	* Warning indicator for over and under load.	
* Large LCD display, easy to read.	* LCD display for low power consumption & clear read-out even	
* A & C weighting networks are conformity to standards.	in bright ambient light condition.	
* FAST & SLOW dynamic characteristic modes.	* Used the durable, long-lasting components, including a strong,	
* AC output for system expansion.	light weight ABS-plastic housing case.	
* Build in adj. VR, available for easy calibration.	* Compact and heavy duty housing case.	
* Condenser microphone for high accuracy & long-term stability.	* Low battery indicator.	
* Build max. hold reset switch.		

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Max. hold, Max. hold reset, AC output.       Measurement Range 3 ranges (30 - 70 dB, 60 - 100 dB, 90 - 130 dB),       Resolution     0.1 dB.       Accuracy     Frequency weighting (31.5 Hz to 16 KHz ) meet IEC 61672 Class1, calibrating input signal on 94 dB       (23 ± 5 °C)     the accuracy of A/C weighting is specified as following:       31.5 Hz : ± 2 0.8 db, 31 Hz : ± 1.5 db, 125 Hz : ± 1.1 dB,     2 SHz : ± 1.4 dB, 500 Hz : ± 1.4 dB, 1 KHz : ± 1.1 dB,       2 KHz : ± 1.4 dB, 500 Hz : ± 1.4 dB, 1 KHz : ± 1.1 dB,     2 KHz : ± 3.0 dB, 0.6 o.0 dB, 16 KHz : ± 3.0 B to -1.0 dB.       Frequency     Characteristics of A & C.     Weighting - The characteristic is near the "FLAT" response. Typical, if making the environmental sound level measurement, always select to A weighting.       C weighting - The characteristic is near the "FLAT" response. Typical, it is suitable for checking the noise of machinery (0.C. check) & knowing the sound pressure level of the tested equipment.       Frequency     31.5 Hz to 16 KHz.     Calibrator       Size of Microphone     Electric condenser microphone.     Size of Microphone       Size of Microphone     Fest + 1 a 20 ms, Siow - 1 = 500 ms, Fast + 1 a 20 ms, Siow - 1 = 500 ms, Fast & Siow" time weighting range are designed to IEC 61672 Class 1 requirement.       Output Signal     Ac cutput terminal is provided for connection with analyzer, level recorder, there recorder.       Bast - 1 = 20 ms, Siow - 1 = 500		SPECIFICATIONS				
Max. hold, Max. hold reset, AC output.       Measurement Range 3 ranges (30 - 70 dB, 60 - 100 dB, 90 - 130 dB),       Resolution     0.1 dB.       Accuracy     Frequency weighting (31.5 Hz to 16 KHz ) meet IEC 61672 Class1, calibrating input signal on 94 dB       (23 ± 5 °C)     the accuracy of A/C weighting is specified as following:       31.5 Hz : ± 2 0.8 db, 31 Hz : ± 1.5 db, 125 Hz : ± 1.1 dB,     2 SHz : ± 1.4 dB, 500 Hz : ± 1.4 dB, 1 KHz : ± 1.1 dB,       2 KHz : ± 1.4 dB, 500 Hz : ± 1.4 dB, 1 KHz : ± 1.1 dB,     2 KHz : ± 3.0 dB, 0.6 o.0 dB, 16 KHz : ± 3.0 B to -1.0 dB.       Frequency     Characteristics of A & C.     Weighting - The characteristic is near the "FLAT" response. Typical, if making the environmental sound level measurement, always select to A weighting.       C weighting - The characteristic is near the "FLAT" response. Typical, it is suitable for checking the noise of machinery (0.C. check) & knowing the sound pressure level of the tested equipment.       Frequency     31.5 Hz to 16 KHz.     Calibrator       Size of Microphone     Electric condenser microphone.     Size of Microphone       Size of Microphone     Fest + 1 a 20 ms, Siow - 1 = 500 ms, Fast + 1 a 20 ms, Siow - 1 = 500 ms, Fast & Siow" time weighting range are designed to IEC 61672 Class 1 requirement.       Output Signal     Ac cutput terminal is provided for connection with analyzer, level recorder, there recorder.       Bast - 1 = 20 ms, Siow - 1 = 500	Display	1 8 mm (0.7") LCD (Liquid Crystal Display), 3 1/2 digits.				
Measurement Range   3 ranges ( 30 - 70 dB, 60 - 100 dB, 90 - 130 dB ),     Resolution   0, 1 dB.     Accuracy   Frequency weighting ( 31.5 Hz to 16 KHz ) meet IEC 61672 Class1, calibrating input signal on 94 dB     (23 ± 5 °C)   the accuracy of A/C weighting is specified as following:     31.5 Hz : ± 2.0 dB, 63 Hz : ± 1.5 dB, 125 Hz : ± 1.1 dB,     250 Hz : ± 1.4 dB, 50 Hz : ± 1.4 dB, 1 KHz : ± 1.1 dB,     2 KHz : ± 1.6 dB, 4 KHz : ± 1.6 dB, 1 KHz : ± 1.1 dB,     12.5 KHz : ± 3.0 dB to -6.0 dB, 16 KHz : ± 3.5 dB to -17.0 dB.     Frequency   Characteristics of A & C.     Weighting Network   A weighting - The characteristic is ismulated as "Human Ear Listing" response. Typical, if making the environmental sound level measurement, always select to A weighting.     C weighting - The characteristic is nere the "FLAT" response. Typical, it is suitable for checking the noise of machinery (0.C. check) & knowing the sound pressure level of the tested equipment.     Frequency   31.5 Hz to 16 KHz.     Zis D Microphone   Electric condenser microphone.     Size of Microphone   12 is Erat = 200 ms, Siow 1 = 500 ms,     Fast & Siow   * Fast" range is simulated the human ear response time weighting.     * Fast" as size.   * Siow * range is easy to get the average values of vibration sound level.     * The "Fast" & Siow"   * Tos "Fast" & Siow" weake generator. <td>Function</td> <td colspan="3">dB (A &amp; C frequency weighting), Time weighting (Fast, Slow),</td>	Function	dB (A & C frequency weighting), Time weighting (Fast, Slow),				
Resolution     0.1 dB.       Accuracy     Frequency weighting (31.5 Hz to 16 KHz) meet IEC 61672 Class1, calibrating input signal on 94 dB       (23 ± 5 °C)     the accuracy of A/C weighting is specified as following: 31.5 Hz : ± 2.0 dB, 63 Hz : ± 1.5 dB, 125 Hz : ± 1.5 dB, 250 Hz : ± 1.4 dB, 500 Hz : ± 1.4 dB, 1KHz : ± 1.1 dB, 2 KHz : ± 1.6 dB, 4 KHz : ± 1.6 dB, 8 KHz : ± 1.1 dB, 2 KHz : ± 3.0 dB to -6.0 dB, 16 KHz : ± 3.5 dB to -17.0 dB.       Frequency     Characteristics of A & C.       Weighting Network     A weighting - The characteristic is simulated as "Human Ear Listing" response. Typical, if making the environmental sound level measurement, always select to A weighting.       C weighting - The characteristic is near the "FLAT" response. Typical, it is suitable for checking the noise of machinery (0.C. check) & knowing the sound pressure level of the tested equipment.       Frequency     31.5 Hz to 16 KHz.       Calibrator     B & K (Bruel & kjaer), multi-fuction acoustic calibrator, model : 4226.       Microphone     1/2 Inch standard size.       Range Selector     30 to 70 dB, 60 to 100 dB, 90 to 130 dB, 40 dB on each step, with over & under range indicating.       The Weighting     Fast - ± 200 ms, Siow - 1 = 500 ms, "Fast & Slow       * The "Fast" arrage is simulated the human ear response time weighting.       * The "Fast" & Slow Time weighting range are designed to IEC 61672 Class 1 requirement.       Output Signal     AC output - AC 750 mVms correspo		Max. hold, Max. hold reset, AC output.				
Accuracy   Frequency weighting ( 31.5 Hz to 16 KHz ) meet IEC 61672 Class1, calibrating input signal on 94 dB     (23 ± 5 °C)   the accuracy of A/C weighting is specified as following:     31.5 Hz : ± 2.0 dB, 65 Hz : ± 1.2 dB, 125 Hz : ± 1.5 dB,     250 Hz : ± 1.4 dB, 500 Hz : ± 1.4 dB, 1 KHz : ± 1.1 dB,     2 KHz : ± 1.6 dB, 4 KHz : ± 1.6 dB, 8 KHz : ± 2.1 dB to -3.1 dB,     112.5 KHz : ± 3.0 dB to -6.0 dB, 16 KHz : ± 3.5 dB to -17.0 dB.     Frequency   Characteristics of A & C.     Weighting Network   A weighting - The characteristic is ismulated as "Human Ear Listing" response. Typical, if making the environmental sound level measurement, always select to A weighting.     C weighting - The characteristic is near the "FLAT" response. Typical, it is suitable for checking the noise of machinery (Q.C. check) & knowing the sound pressure level of the tested equipment.     Frequency   31.5 Hz to 16 KHz.     Calibrator   B & K (Bruel & kiger), multi-fuction acoustic calibrator, model : 4226.     Bicrophone   1/2 Inch standard size.     Range Selector   30 to 70 dB, 60 to 100 dB, 90 to 130 dB, 40 dB on each step, with over & under range indicating.     Time Weighting   Fast + ± 20 dm s, Silow + 1 = 500 ms, Fast % Slow     * "Fast" arrage is simulated the human ear response time weighting.     * "Fast" arrage is solicital system.     Output Signal   Ac output - AC 750 mVrms corresponding	Measurement Range	3 ranges ( 30 - 70 dB, 60 - 100 dB, 90 - 130 dB ),				
(23 ± 5 °C)   the accuracy of A/C weighting is specified as following:     31.5 Hz : ± 2.0 dB, 63 Hz : ± 1.5 dB, 125 Hz : ± 1.5 dB,     250 Hz : ± 1.4 dB, 500 Hz : ± 1.4 dB, 1KHz : ± 1.1 dB,     2 KHz : ± 1.6 dB, 8 KHz : ± 1.6 dB, 8 KHz : ± 1.1 dB,     12.5 KHz : ± 3.0 dB to -6.0 dB, 16 KHz : ± 3.5 dB to -3.1 dB,     12.5 KHz : ± 1.4 dB, 500 HZ : ± 1.4 dB, 1 KHz : ± 1.1 dB,     2 KHz : ± 1.6 dB, 8 KHz : ± 1.6 dB, 8 KHz : ± 1.1 dB,     12.5 KHz : ± 3.0 dB to -6.0 dB, 16 KHz : ± 3.5 dB to -17.0 dB.     Frequency     Weighting Network     A weighting - The characteristic is simulated as "Human Ear Listing" response. Typical, if making	Resolution					
31.5 Hz : ± 2.0 dB, 63 Hz : ± 1.5 dB, 125 Hz : ± 1.5 dB, 250 Hz : ± 1.4 dB, 500 Hz : ± 1.4 dB, 1 KHz : ± 1.1 dB, 250 Hz : ± 1.4 dB, 500 Hz : ± 1.4 dB, 1 KHz : ± 2.1 dB to -3.1 dB, 12.5 KHz : ± 3.0 dB to -6.0 dB, 16 KHz : ± 3.5 dB to -17.0 dB.     Frequency   Characteristics of A & C.     A weighting Network   A weighting - The characteristic is simulated as "Human Ear Listing" response. Typical, if making the environmental sound level measurement, always select to A weighting.     C weighting - The characteristic is near the "FLAT" response. Typical, it is suitable for checking the noise of machinery (O.C. check) & knowing the sound pressure level of the tested equipment.     Frequency   31.5 Hz to 16 KHz.     23.5 Hz to 16 KHz.   Calibrator     B & K (Bruel & kjaer), multi-fuction acoustic calibrator, model : 4226.     Microphone   12 inch standard size.     Range Selector   30 to 70 dB, 60 to 100 dB, 90 to 130 dB, 40 dB on each step, with over & under range indicating.     Time Weighting   Fast + ast" as is simulated the human ear response time weighting.     * "Fast" range is simulated the human ear response time weighting.     * The "Fast" & Slow" time weighting range are designed to IEC 61672 Class 1 requirement.     Output Signal   AC output - AC 750 mVrms corresponding to each range step.     Calibration   Build in external calibration VR, easy to calibrate on 94 dB level by screw driver.     Internal oscillation system, 1 KHz sine wave generator.	Accuracy	Frequency weighting ( 31.5 Hz to 16 KHz ) meet IEC 61672 Class1, calibrating input signal on 94 dB				
250 Hz : ± 1.4 dB, 500 Hz : ± 1.4 dB, 1 KHz : ± 1.1 dB,     2 KHz : ± 1.6 dB, 4 KHz : ± 1.6 dB, 8 KHz : ± 2.1 dB to -3.1 dB,     12.5 KHz : ± 3.0 dB to -6.0 dB, 16 KHz : ± 2.1 dB to -3.1 dB,     Frequency   Characteristics of A & C.     Weighting Network   A weighting - The characteristic is simulated as "Human Ear Listing" response. Typical, if making the environmental sound level measurement, always select to A weighting.     C weighting - The characteristic is near the "FLAT" response. Typical, it is suitable for checking the noise of machinery (0.C. check) & knowing the sound pressure level of the tested equipment.     Frequency   31.5 Hz to 16 KHz.     Calibrator   B & K (Bruel & kjær), multi-fuction acoustic calibrator, model : 4226.     Microphone   Electric condenser microphone.     Size of Microphone   12 inch standard size.     Range Selector   30 to 70 dB, 60 to 100 dB, 90 to 130 dB, 40 dB on each step, with over & under range indicating.     Time Weighting   Fast + 12 200 ms, Stow + t = 500 ms, * The *Fast* & "Slow" time weighting range are designed to IEC 61672 Class 1 requirement.     Output Signal   AC coutput - AC 750 mVrms corresponding to each range step.     Calibration   Build in external calibration VR, easy to calibrate on 94 dB level by screw driver. Internal oscillation system, 1 KHz sine wave generator.     Output Signal   AC iotput - AC 750 mVrms corresponding to each range step.	(23 ± 5 ℃)	the accuracy of A/C weighting is specified as following:				
2 KHz : ± 1.6 dB, 4 KHz : ± 1.6 dB, 8 KHz : ± 2.1 dB to -3.1 dB,     12.5 KHz : ± 3.0 dB to -6.0 dB, 16 KHz : ± 3.5 dB to -17.0 dB.     Frequency   Characteristics of A & C.     Weighting Network   A weighting - The characteristic is simulated as "Human Ear Listing" response. Typical, if making the environmental sound level measurement, always select to A weighting.     C weighting - The characteristic is near the "FLAT" response. Typical, it is suitable for checking the noise of machinery (Q.C. check) & knowing the sound pressure level of the tested equipment.     Frequency   31.5 Hz to 16 KHz.     Calibrator   B & K (Bruel & kjaer), multi-fuction acoustic calibrator, model : 4226.     Microphone   Electric condenser microphone.     Size of Microphone   1/2 inch standard size.     Range Selector   30 to 70 dB, 60 to 100 dB, 90 to 130 dB, 40 dB on each step, with over & under range indicating.     Time Weighting   Fast - t= 200 ms, Slow - t = 500 ms, * Tast" a "Slow" imme weighting range are designed to IEC 61672 Class 1 requirement.     Output Signal   AC output - AC 750 mVmms corresponding to each range step.     Calibration   Build in external calibration VR, easy to calibrate on 94 dB level by screw driver. Internal oscillation system, 1 KHz sine wave generator.     Output Terminal   3.5 mm dia. phone output terminal is provided for connection with analyzer, level recorder, tape recorder.     Operating Humidity <t< td=""><td></td><td>31.5 Hz : ± 2.0 dB, 63 Hz : ± 1.5 dB, 125 Hz : ± 1.5 dB,</td></t<>		31.5 Hz : ± 2.0 dB, 63 Hz : ± 1.5 dB, 125 Hz : ± 1.5 dB,				
12.5 KHz : + 3.0 dB to -6.0 dB, 16 KHz : + 3.5 dB to -17.0 dB.     Frequency   Characteristics of A & C.     Weighting Network   A weighting - The characteristic is simulated as "Human Ear Listing" response. Typical, if making         the environmental sound level measurement, always select to A weighting.     C weighting - The characteristic is near the "FLAT" response. Typical, it is suitable for checking the         noise of machinery (Q.C. check) & knowing the sound pressure level of the tested         equipment.     Frequency   31.5 Hz to 16 KHz.     Calibrator   B & K (Bruel & kjaer), multi-fuction acoustic calibrator, model : 4226.     Microphone   Electric condenser microphone.     Size of Microphone   1/2 inch standard size.     Range Selector   30 to 70 dB, 60 to 100 dB, 90 to 130 dB, 40 dB on each step,         with over & under range indicating.     Time Weighting   Fast - 200 ms, Slow - t = 500 ms,         with over a under range indicating.     Time Weighting   Fast - 200 ms, Slow - t = 500 ms,         "Fast" samps is simulated the human ear response time weighting.         "Fast" samps weighting range are designed to IEC 61672 Class 1 requirement.     Output Signal   AC output - AC 750 mVrms corresponding to each range step.     Calibration   Build in external calibration VR, easy to calibrate on 94 dB level by screw driver.         Internal oscillation system, 1 KHz sine wave generator.     Output Terminal		250 Hz : ± 1.4 dB, 500 Hz : ± 1.4 dB, 1 KHz : ± 1.1 dB,				
Frequency   Characteristics of A & C.     Weighting Network   A weighting - The characteristic is simulated as "Human Ear Listing" response. Typical, if if suitable for checking the noise of machinery (Q.C. check) & knowing the sound pressure level of the tested equipment.     Frequency   31.5 Hz to 16 KHz.     Calibrator   B & K (Bruel & kjaer), multi-fuction acoustic calibrator, model : 4226.     Microphone   Electric condenser microphone.     Size of Microphone   1/2 inch standard size.     Range Selector   30 to 70 dB, 60 to 100 dB, 90 to 130 dB, 40 dB on each step, with over & under range indicating.     Time Weighting   Fast + = 200 ms, Slow - t = 500 ms, *     Fast & Slow   * "Fast" range is simulated the human ear response time weighting.     (F & S )   "Slow" range is easy to get the average values of vibration sound level.     * The "Fast" & Slow" time weighting range are designed to 1EC 61672 Class 1 requirement.     Output Signal   AC output - AC 750 mVrms corresponding to each range step.     Calibration   Build in external calibration VR, easy to calibrate on 94 dB level by screw driver.     Internal oscillation system, 1 KHz sine wave generator.   Output Terminal     3.5 mm dia, phone output terminal is provided for connection with analyzer, level recorder, tape recorder.   1 pC.     Operating Humidity   Less than 80% RH.		2 KHz : ± 1.6 dB, 4 KHz : ± 1.6 dB, 8 KHz : + 2.1 dB to -3.1 dB,				
Weighting Network     A weighting - The characteristic is simulated as "Human Ear Listing" response. Typical, if making the environmental sound level measurement, always select to A weighting.       C weighting - The characteristic is near the "FLAT" response. Typical, it is suitable for checking the noise of machinery (Q.C. check) & knowing the sound pressure level of the tested equipment.       Frequency     31.5 Hz to 16 KHz.       Calibrator     B & K (Bruel & kjaer), multi-fuction acoustic calibrator, model : 4226.       Microphone     Electric condenser microphone.       Size of Microphone     1/2 Inch standard size.       Range Selector     30 to 70 dB, 60 to 100 dB, 90 to 130 dB, 40 dB on each step, with over & under range indicating.       Time Weighting     Fast - 1200 ms, Slow - t = 500 ms, Fast & Slow       * The "Fast" range is simulated the human ear response time weighting.       * The "Fast" ange is easy to get the average values of vibration sound level.       * The "Fast" & "Slow" time weighting tange are designed to IEC 61672 Class 1 requirement.       Output Signal     AC output - AC 750 mVrms corresponding to each range step.       Calibration     Build in external calibration VR, easy to calibrate on 94 dB level by screw driver. Internal oscillation system, 1 KHz sine wave generator.       Output Terminal     3.5 mm dia, phone output terminal is provided for connection with analyzer, level recorder, tape recorder.       Operati		12.5 KHz : + 3.0 dB to -6.0 dB, 16 KHz : + 3.5 dB to -17.0 dB.				
the environmental sound level measurement, always select to A weighting.       C weighting - The characteristic is near the "FLAT" response. Typical, it is suitable for checking the noise of machinery (Q.C. check) & knowing the sound pressure level of the tested equipment.       Frequency     31.5 Hz to 16 KHz.       Calibrator     B & K (Bruel & kjaer), multi-fuction acoustic calibrator, model : 4226.       Microphone     Electric condenser microphone.       Size of Microphone     12 inch standard size.       Range Selector     30 to 70 dB, 60 to 100 dB, 90 to 130 dB, 40 dB on each step, with over & under range indicating.       Time Weighting     Fast - t = 200 ms, Slow - t = 500 ms, Fast % arge is simulated the human ear response time weighting.       Fsat & Slow     * "rast" range is simulated the human ear response time weighting.       Glibration     * Jidi in external calibration NR, easy to calibrate on 94 dB level by screw driver.       Calibration     Build in external calibration NR, easy to calibrate on 94 dB level by screw driver.       Internal oscillation system, 1 KHz sine wave generator.     Coperating Humidtj       Output Terminal     3.5 mm dia. phone output terminal is provided for connection with analyzer, level recorder, tape recorder.       Operating Humidtj     Less than 80% RH.       Power Consumption     Aptrox. DC 17 mA.       Dimension     2	Frequency	Characteristics of A & C.				
C weighting - The characteristic is near the "FLAT" response. Typical, it is suitable for checking the noise of machinery (Q.C. check) & knowing the sound pressure level of the tested equipment.       Frequency     31.5 Hz to 16 KHz.       Calibrator     B & K (Bruel & kjaer), multi-fuction acoustic calibrator, model : 4226.       Microphone     Electric condenser microphone.       Size of Microphone     1/2 inch standard size.       Range Selector     30 to 70 dB, 60 to 100 dB, 90 to 130 dB, 40 dB on each step, with over & under range indicating.       Time Weighting     Fast - t= 200 ms, Slow - t = 500 ms, * "Fast" range is simulated the human ear response time weighting.       Fast & Slow     * "Fast" range is on yot or corresponding to each range step.       Output Signal     AC cutput - AC 750 mVrms corresponding to each range step.       Calibration     Build in external calibration VR, easy to calibrate on 94 dB level by screw driver. Internal oscillation system, 1 KHz sine wave generator.       Output Terminal     3.5 mm dia. phone output terminal is provided for connection with analyzer, level recorder, tape recorder.       Operating Temp.     0 °C to 50 °C (32 °F to 122 °F).       Operating Humidity     Less than 80% RH.       Power Consumption     Approx. DC 17 mA.       Dimension     260 x 87 x 3 6 mm (10.2 x 3.4 x 1.4 inch ).       Weight	Weighting Network	A weighting - The characteristic is simulated as "Human Ear Listing" response. Typical, if making				
noise of machinery (Q.C. check) & knowing the sound pressure level of the tested equipment.       Frequency     31.5 Hz to 16 KHz.       Calibrator     B & K (Bruel & kjaer), multi-fuction acoustic calibrator, model : 4226.       Microphone     Electric condenser microphone.       Size of Microphone     1/2 inch standard size.       Range Selector     30 to 70 dB, 60 to 100 dB, 90 to 130 dB, 40 dB on each step, with over & under range indicating.       Time Weighting     Fast - t = 200 ms, Slow - t = 500 ms, * "Fast" range is simulated the human ear response time weighting.       Fast & Slow     * "Fast" range is easy to get the average values of vibration sound level.       K     * The "Fast" & "Slow" time weighting range are designed to IEC 61672 Class 1 requirement.       Output Signal     AC output - AC 750 mVrms corresponding to each range step.       Calibration     Build in external calibration VR, easy to calibrate on 94 dB level by screw driver. Internal oscillation system, 1 KHz sine wave generator.       Output Terminal     3.5 mm dia. phone output terminal is provided for connection with analyzer, level recorder, tape recorder.       Operating Temp.     0 °C to 50 °C (32 °F to 122 °F).       Operating Humidity     Less than 80% RH.       Power Supply     D V battery x 2 PCs, 006P, MN1604 (PP3 ) or equivalent, heavy duty or alkaline type.       Power Consump		the environmental sound level measurement, always select to A weighting.				
equipment.       Frequency     31.5 Hz to 16 KHz.       Calibrator     B & K (Bruel & Kjær), multi-fuction acoustic calibrator, model : 4226.       Microphone     Electric condenser microphone.       Size of Microphone     1/2 inch standard size.       Range Selector     30 to 70 dB, 60 to 100 dB, 90 to 130 dB, 40 dB on each step, with over & under range indicating.       Time Weighting     Fast - t = 200 ms, Slow - t = 500 ms, "Slow" range is easy to get the average values of vibration sound level.       * The "Fast" ange is simulated the human ear response time weighting.     "Slow" range is easy to get the average values of vibration sound level.       * The "Fast" & "Slow" time weighting range are designed to IEC 61672 Class 1 requirement.     Output Signal       AC output - AC 750 mVrms corresponding to each range step.     Calibration       Build in external calibration VR, easy to calibrate on 94 dB level by screw driver. Internal oscillation system, 1 KHz sine wave generator.     Output Terminal       0.5 mm dia. phone output terminal is provided for connection with analyzer, level recorder, tape recorder.     Operating Humidity       0 ver S bapty     D °C to 50 °C ( 32 °F to 122 °F).     Operating Humidity       0 ess than 80% RH.     Power Consumption     Aporx. DC 17 mA.       Dimension     260 x 87 x 36 mm (10.2 x 3.4 x 1.4 inch ).     Poegetating		C weighting - The characteristic is near the "FLAT" response. Typical, it is suitable for checking the				
Frequency   31.5 Hz to 16 KHz.     Calibrator   B & K (Bruel & kjaer), multi-fuction acoustic calibrator, model : 4226.     Microphone   Electric condenser microphone.     Size of Microphone   1/2 inch standard size.     Range Selector   30 to 70 dB, 60 to 100 dB, 90 to 130 dB, 40 dB on each step, with over & under range indicating.     Time Weighting   Fast - t = 200 ms, Slow - t = 500 ms,     Fast & Slow   * "Fast" range is simulated the human ear response time weighting.     (f & S )   "Slow" range is easy to get the average values of vibration sound level.     * The "Fast" & "Slow" time weighting range are designed to 1EC 61672 Class 1 requirement.     Output Signal   AC output - AC 750 mVrms corresponding to each range step.     Calibration   Build in external calibration VR, easy to calibrate on 94 dB level by screw driver.     Internal oscillation system, 1 KHz sine wave generator.   Nutput terminal     3.5 mm dia. phone output terminal is provided for connection with analyzer, level recorder, tape recorder.   Power Supply     Operating Humidity   Less than 80% RH.     Power Supply   DC 9V battery x 2 PCs, 006P, MN1604 (PP3 ) or equivalent, heavy duty or alkaline type.     Power Consumption   Approx. DC 17 mA.     Dimension   260 x 87 x 36 mm (10.2 x 3.4 x 1.4 inch ).     <		noise of machinery (Q.C. check) & knowing the sound pressure level of the tested				
Calibrator   B & K (Bruel & kjaer), multi-fuction acoustic calibrator, model : 4226.     Microphone   Electric condenser microphone.     Size of Microphone   1/2 inch standard size.     Range Selector   30 to 70 dB, 60 to 100 dB, 90 to 130 dB, 40 dB on each step, with over & under range indicating.     Time Weighting   Fast - t = 200 ms, Slow - t = 500 ms, * "Fast" ange is simulated the human ear response time weighting.     Fast & Slow   * "Fast" range is easy to get the average values of vibration sound level.     * The "Fast" & "Slow" time weighting range are designed to IEC 61672 Class 1 requirement.     Output Signal   AC output - AC 750 mVrms corresponding to each range step.     Calibration   Build in external calibration VR, easy to calibrate on 94 dB level by screw driver. Internal oscillation system, 1 KHz sine wave generator.     Output Terminal   3.5 mm dia. phone output terminal is provided for connection with analyzer, level recorder, tape recorder.     Operating Temp.   0 ° C to 50 ° C (32 °F to 122 °F).     Operating Humidity   Less than 80% RH.     Power Consumption   Approx. DC 17 mA.     Dimension   260 x 87 x 36 mm (10.2 x 3.4 x 1.4 inch ).     Weight   450 g/0.99 LB     Standard   Instruction Manual.   1 PC. Calibration screw driver.     Standard   I Nc.		equipment.				
Microphone     Electric condenser microphone.       Size of Microphone     1/2 inch standard size.       Range Selector     30 to 70 dB, 60 to 100 dB, 90 to 130 dB, 40 dB on each step, with over & under range indicating.       Time Weighting     Fast - t = 200 ms, Slow - t = 500 ms,       Fast & Slow     * "Fast" arage is simulated the human ear response time weighting.       "Slow" range is easy to get the average values of vibration sound level.       * The "Fast" & "Slow" time weighting range are designed to IEC 61672 Class 1 requirement.       Output Signal     AC output - AC 750 mVrms corresponding to each range step.       Calibration     Build in external calibration VR, easy to calibrate on 94 dB level by screw driver. Internal oscillation system, 1 KHz sine wave generator.       Output Terminal     3.5 mm dia. phone output terminal is provided for connection with analyzer, level recorder, tape recorder.       Operating Temp.     0 °C to 50 °C (32 °F to 122 °F).       Operating Humidity     Less than 80% RH.       Power Consumption     Approx. DC 17 mA.       Dimension     260 x 87 x 36 mm (10.2 x 3.4 x 1.4 inch ).       Weight     450 g/0.99 LB       Standard     Instruction Manual	Frequency	31.5 Hz to 16 KHz.				
Size of Microphone   1/2 inch standard size.     Range Selector   30 to 70 dB, 60 to 100 dB, 90 to 130 dB, 40 dB on each step, with over & under range indicating.     Time Weighting   Fast - t = 200 ms, Slow - t = 500 ms,     Fast & Slow   * "Fast" range is simulated the human ear response time weighting.     (F & S )   "Slow" range is easy to get the average values of vibration sound level.     * The "Fast" & "Slow" time weighting range are designed to IEC 61672 Class 1 requirement.     Output Signal   AC output - AC 750 mVrms corresponding to each range step.     Calibration   Build in external calibration VR, easy to calibrate on 94 dB level by screw driver.     Internal oscillation system, 1 KHz sine wave generator.   Internal oscillation system, 1 KHz sine wave generator.     Output Terminal   3.5 mm dia. phone output terminal is provided for connection with analyzer, level recorder, tape recorder.     Operating Temp.   0 °C to 50 °C ( 32 °F to 122 °F).     Operating Humidity   Less than 80% RH.     Power Supply   DC 9V battery x 2 PCs, 006P, MN1604 ( PP3 ) or equivalent, heavy duty or alkaline type.     Power Consumption   Approx. DC 17 mA.     Dimension   260 x 87 x 36 mm (10.2 x 3.4 x 1.4 inch ).     Weight   450 g/0.99 LB     Standard   Instruction Manual.   1 PC.  <	Calibrator	B & K (Bruel & kjaer), multi-fuction acoustic calibrator, model : 4226.				
Range Selector   30 to 70 dB, 60 to 100 dB, 90 to 130 dB, 40 dB on each step,     with over & under range indicating.     Time Weighting   Fast - t = 200 ms, Slow - t = 500 ms,     Fast & Slow   * "Fast" range is simulated the human ear response time weighting.     (F & S )   "Slow" range is easy to get the average values of vibration sound level.     * The "Fast" & "Slow" time weighting range are designed to IEC 61672 Class 1 requirement.     Output Signal   AC output - AC 750 mVrms corresponding to each range step.     Calibration   Build in external calibration VR, easy to calibrate on 94 dB level by screw driver.     Internal oscillation system, 1 KHz sine wave generator.   Internal oscillation system, 1 KHz sine wave generator.     Output Terminal   3.5 mm dia. phone output terminal is provided for connection with analyzer, level recorder, tape recorder.     Operating Temp.   0 °C to 50 °C ( 32 °F to 122 °F).     Operating Humidity   Less than 80% RH.     Power Supply   DC 9V battery x 2 PCs, 006P, MN1604 ( PP3 ) or equivalent, heavy duty or alkaline type.     Power Consumption   Approx. DC 17 mA.     Dimension   260 x 87 x 36 mm (10.2 x 3.4 x 1.4 inch ).     Weight   450 g/0.99 LB     Standard   I PC.     Calibration screw driver.   1 PC. <t< td=""><td>Microphone</td><td>Electric condenser microphone.</td></t<>	Microphone	Electric condenser microphone.				
with over & under range indicating.Time WeightingFast - t = 200 ms, Slow - t = 500 ms,Fast & Slow* "Fast" range is simulated the human ear response time weighting. "Slow" range is easy to get the average values of vibration sound level. * The "Fast" & "Slow" time weighting range are designed to IEC 61672 Class 1 requirement.Output SignalAC output - AC 750 mVrms corresponding to each range step.CalibrationBuild in external calibration VR, easy to calibrate on 94 dB level by screw driver. Internal oscillation system, 1 KHz sine wave generator.Output Terminal3.5 mm dia. phone output terminal is provided for connection with analyzer, level recorder, tape recorder.Operating Temp.0 °C to 50 °C (32 °F to 122 °F). Operating HumidityOperating Temp.0 °C to 50 °C (32 °F to 122 °F).Operating Approx. DC 17 mA.Dimension260 x 87 x 36 mm (10.2 x 3.4 x 1.4 inch ).Weight450 g/0.99 LBStandardInstruction Manual.Quitourial or screw driver.Optional94 dB Sound Calibrator, model : SC-941. Accessories94/114 dB Sound Calibrator, model : SC-942.	Size of Microphone	1/2 inch standard size.				
Time Weighting Fast - t = 200 ms, Slow - t = 500 ms,Fast & Slow* "Fast" range is simulated the human ear response time weighting. "Slow" range is easy to get the average values of vibration sound level. * The "Fast" & "Slow" time weighting range are designed to IEC 61672 Class 1 requirement.Output SignalAC output - AC 750 mVrms corresponding to each range step.CalibrationBuild in external calibration VR, easy to calibrate on 94 dB level by screw driver. Internal oscillation system, 1 KHz sine wave generator.Output Terminal3.5 mm dia. phone output terminal is provided for connection with analyzer, level recorder, tape recorder.Operating Temp.0 °C to 50 °C (32 °F to 122 °F).Operating Temp.0 °C to 50 °C (32 °F to 122 °F).Operating HumidityLess than 80% RH.Power ConsumptionApprox. DC 17 mA.Dimension260 x 87 x 36 mm (10.2 x 3.4 x 1.4 inch ).Weight450 g/0.99 LBStandardInstruction Manual.AccessoriesCarrying case.Optional94 dB Sound Calibrator, model : SC-941. 94/114 dB Sound Calibrator, model : SC-942.	Range Selector	30 to 70 dB, 60 to 100 dB, 90 to 130 dB, 40 dB on each step,				
Fast & Slow   * "Fast" range is simulated the human ear response time weighting.     (F & S)   "Slow" range is easy to get the average values of vibration sound level.     * The "Fast" & "Slow" time weighting range are designed to IEC 61672 Class 1 requirement.     Output Signal   AC output - AC 750 mVrms corresponding to each range step.     Calibration   Build in external calibration VR, easy to calibrate on 94 dB level by screw driver.     Internal oscillation system, 1 KHz sine wave generator.   Internal oscillation system, 1 KHz sine wave generator.     Output Terminal   3.5 mm dia. phone output terminal is provided for connection with analyzer, level recorder, tape recorder.     Operating Temp.   0 °C to 50 °C ( 32 °F to 122 °F).     Operating Humidity   Less than 80% RH.     Power Supply   DC 9V battery x 2 PCs, 006P, MN1604 ( PP3 ) or equivalent, heavy duty or alkaline type.     Power Consumption   Approx. DC 17 mA.     Dimension   260 x 87 x 36 mm (10.2 x 3.4 x 1.4 inch ).     Weight   450 g/0.99 LB     Standard   Instruction Manual.     Instruction Manual.   1 PC.     Calibration screw driver.   1 PC.     Calibration screw driver.   1 PC.     Qotional   94 dB Sound Calibrator, model : SC-942.		with over & under range indicating.				
(F & S )   "Slow" range is easy to get the average values of vibration sound level.     * The "Fast" & "Slow" time weighting range are designed to IEC 61672 Class 1 requirement.     Output Signal   AC output - AC 750 mVrms corresponding to each range step.     Calibration   Build in external calibration VR, easy to calibrate on 94 dB level by screw driver. Internal oscillation system, 1 KHz sine wave generator.     Output Terminal   3.5 mm dia. phone output terminal is provided for connection with analyzer, level recorder, tape recorder.     Operating Temp.   0 °C to 50 °C (32 °F to 122 °F).     Operating Humidity   Less than 80% RH.     Power Supply   DC 9V battery x 2 PCs, 006P, MN1604 (PP3 ) or equivalent, heavy duty or alkaline type.     Power Consumption   Approx. DC 17 mA.     Dimension   260 x 87 x 36 mm (10.2 x 3.4 x 1.4 inch ).     Weight   450 g/0.99 LB     Standard   Instruction Manual	Time Weighting	Fast - t = 200 ms, Slow - t = 500 ms,				
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Output Signal   AC output - AC 750 mVrms corresponding to each range step.     Calibration   Build in external calibration VR, easy to calibrate on 94 dB level by screw driver. Internal oscillation system, 1 KHz sine wave generator.     Output Terminal   3.5 mm dia. phone output terminal is provided for connection with analyzer, level recorder, tape recorder.     Operating Temp.   0 °C to 50 °C (32 °F to 122 °F).     Operating Humidity   Less than 80% RH.     Power Supply   DC 9V battery x 2 PCs, 006P, MN1604 (PP3 ) or equivalent, heavy duty or alkaline type.     Power Consumption   Approx. DC 17 mA.     Dimension   260 x 87 x 36 mm (10.2 x 3.4 x 1.4 inch ).     Weight   450 g/0.99 LB     Standard   Instruction Manual.     Instruction Manual.   1 PC.     Calibration screw driver.   1 PC.     Optional   94 dB Sound Calibrator, model : SC-941.     Accessories   94/114 dB Sound Calibrator, model : SC-942.	(F & S )					
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Internal oscillation system, 1 KHz sine wave generator.     Output Terminal   3.5 mm dia. phone output terminal is provided for connection with analyzer, level recorder, tape recorder.     Operating Temp.   0 °C to 50 °C ( 32 °F to 122 °F).     Operating Humidity   Less than 80% RH.     Power Supply   DC 9V battery x 2 PCs, 006P, MN1604 ( PP3 ) or equivalent, heavy duty or alkaline type.     Power Consumption   Approx. DC 17 mA.     Dimension   260 x 87 x 36 mm ( 10.2 x 3.4 x 1.4 inch ).     Weight   450 g/0.99 LB     Standard   Instruction Manual.     Calibration screw driver.   1 PC.     Calibration screw driver.   1 PC.     Optional   94 dB Sound Calibrator, model : SC-941.     Accessories   94/114 dB Sound Calibrator, model : SC-942.	Output Signal	AC output - AC 750 mVrms corresponding to each range step.				
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tape recorder.     Operating Temp.   0 °C to 50 °C ( 32 °F to 122 °F).     Operating Humidity   Less than 80% RH.     Power Supply   DC 9V battery x 2 PCs, 006P, MN1604 ( PP3 ) or equivalent, heavy duty or alkaline type.     Power Consumption   Approx. DC 17 mA.     Dimension   260 x 87 x 36 mm ( 10.2 x 3.4 x 1.4 inch ).     Weight   450 g/0.99 LB     Standard   Instruction Manual.     Accessories   Carrying case.     Optional   94 dB Sound Calibrator, model : SC-941.     Accessories   94/114 dB Sound Calibrator, model : SC-942.		Internal oscillation system, 1 KHz sine wave generator.				
Operating Temp.   0 °C to 50 °C ( 32 °F to 122 °F).     Operating Humidity   Less than 80% RH.     Power Supply   DC 9V battery x 2 PCs, 006P, MN1604 ( PP3 ) or equivalent, heavy duty or alkaline type.     Power Consumption   Approx. DC 17 mA.     Dimension   260 x 87 x 36 mm ( 10.2 x 3.4 x 1.4 inch ).     Weight   450 g/0.99 LB     Standard   Instruction Manual.     Calibration screw driver.   1 PC.     Accessories   Carrying case.     Optional   94 dB Sound Calibrator, model : SC-941.     Accessories   94/114 dB Sound Calibrator, model : SC-942.	Output Terminal	3.5 mm dia. phone output terminal is provided for connection with analyzer, level recorder,				
Operating Humidity   Less than 80% RH.     Power Supply   DC 9V battery x 2 PCs, 006P, MN1604 ( PP3 ) or equivalent, heavy duty or alkaline type.     Power Consumption   Approx. DC 17 mA.     Dimension   260 x 87 x 36 mm ( 10.2 x 3.4 x 1.4 inch ).     Weight   450 g/0.99 LB     Standard   Instruction Manual.     Calibration screw driver.   1 PC.     Accessories   Carrying case.     Optional   94 dB Sound Calibrator, model : SC-941.     Accessories   94/114 dB Sound Calibrator, model : SC-942.		tape recorder.				
Power Supply   DC 9V battery x 2 PCs, 006P, MN1604 (PP3 ) or equivalent, heavy duty or alkaline type.     Power Consumption   Approx. DC 17 mA.     Dimension   260 x 87 x 36 mm (10.2 x 3.4 x 1.4 inch ).     Weight   450 g/0.99 LB     Standard   Instruction Manual	Operating Temp.	0 $^\circ C$ to 50 $^\circ C$ ( 32 $^\circ F$ to 122 $^\circ F$ ).				
Power Consumption   Approx. DC 17 mA.     Dimension   260 x 87 x 36 mm (10.2 x 3.4 x 1.4 inch ).     Weight   450 g/0.99 LB     Standard   Instruction Manual	Operating Humidity	Less than 80% RH.				
Dimension   260 x 87 x 36 mm (10.2 x 3.4 x 1.4 inch ).     Weight   450 g/0.99 LB     Standard   Instruction Manual	Power Supply	DC 9V battery x 2 PCs, 006P, MN1604 (PP3) or equivalent, heavy duty or alkaline type.				
Weight   450 g/0.99 LB     Standard   Instruction Manual	Power Consumption	Approx. DC 17 mA.				
Standard   Instruction Manual	Dimension	260 x 87 x 36 mm ( 10.2 x 3.4 x 1.4 inch ).				
Calibration screw driver	Weight	450 g/0.99 LB				
AccessoriesCarrying case	Standard	Instruction Manual 1 PC.				
Optional 94 dB Sound Calibrator, model : SC-941.   Accessories 94/114 dB Sound Calibrator, model : SC-942.		Calibration screw driver 1 PC.				
Accessories 94/114 dB Sound Calibrator, model : SC-942.	Accessories	Carrying case 1 PC.				
	Optional	94 dB Sound Calibrator, model : SC-941.				
Wind shield hall SB-01	Accessories	94/114 dB Sound Calibrator, model : SC-942.				
		Wind shield ball, SB-01.				

#### SOUND LEVEL METER CALIBRATOR, Model : SC-941, SC-942

~	DE	<b>01E</b>		ONIC
	1213		S 0007 A 100 SS	IONS
	6.000 mg			

Futures	Precision 94 dB/1000 Hz sound calibrator, useful to calibrate Sound Level Meter.		
Frequency	1000 Hz ± 2 %.		
Sound Pressure Level	SC-941	94 dB : ± 0.75 dB.	
	SC-942	94 dB : ± 0.75 dB, 114 dB : ± 0.9 dB.	
Microphone Type	0.5" microphone & 1" microphone.		
Size	Round 50 mm dia. x 82 mm.		

\* Appearance and specifications listed in this brochure are subject to change without notice.