X-ND100 Digital Noise Detector

X-ND100 (Digital Noise Detector) is used to detect ambient noise, automatically calculate the noise SPL, and transmit the SPL data to X-DCS3000. It is an important component tofulfill the function of automatic volume control. While broadcasting, the sound is mixed with ambient noise. In order to measure the noise SPL accurately, X-ND100 measures broadcast signal from speaker lines, comparing with the signal from microphone to get the actual noise data.

X-ND100

TECHNICAL SPECIFICATIONS

TECHNICAL DATA	PARAMETER
Broadcast Signal Input	100V
Sensitivity	-44±3dB (0dB=1V/Pa,1KHz)
Frequency Response	100Hz~20KHz
S/N Ratio	≥58dB
Directivity	Omni-directional Directivity
Sound Pressure Level	110dB
Power Supply	By Control Line
Color	White (RAL9003)
Mounting Hole Size	Φ160 mm
Depth of Hole	100mm
Ceiling Thickness	5 to 25 mm
Operating Temperature	-10°C~+55°C
Storage Temperature	-25°C~+70°C
Relative Humidity	<95%, no condensation
Dimensions	Φ180 x 105 mm
Packing Dimension (W×H×D)	185 x 115 x185mm
Net Weight	0.315 Kg
Gross Weight	0.446Kg

INSTALLATION NOTES

No.	Name	Description
1	Control Line Interface	To connect a DCL port of X-DCS3000
2	Speaker Line Interface	To connect controlled speaker line

FEATURES AND BENEFITS

• Connect toX-DCS3000 by a pair of cables, through which fulfill communication and power supply.

• Max. 5 noise detectors for each channel.

• Max. transmission distance is 1000m.
• Flush-mounting in ceiling.

• Currently collect broadcast signal and noise signal.

• Fire-proof ABS shell.
• Ideal for indoor installation.