

# Noise sensor

Model ES-N601



## Introduction

ES-N601 noise sensor is a high-precision sound metering instrument with a range of up to 30dB~130dB, which can meet daily measurement needs. The product adopts a highly sensitive condenser microphone with stable signal and high precision. It has the characteristics of wide measurement range, good linearity, easy use, easy installation and long transmission distance.

It uses a highly sensitive condenser microphone and a built-in electret as the sound measuring element to measure the sound intensity. The measurement signal is stable and accurate. It supports multiple signal outputs of RS485/4-20mA/0-5V/0-10V/TTL.

## Main features

- Highly sensitive condenser microphone
- Built-in electret as sound measuring element, sound intensity measurement, stable measurement signal, high accuracy
- RS485/4-20mA/0-5V/0-10V/TTL multiple signal output
- 20Hz~12.5Khz wide pickup frequency
- Easy wall-mounted installation

## Compliance

The electromagnetic compatibility in accordance with the following applicable directives:

LVD 2014/35/EU Low Voltage

EMC 2014/30/EU

Electromagnetic Compatibility

EMC 2014/35/EU

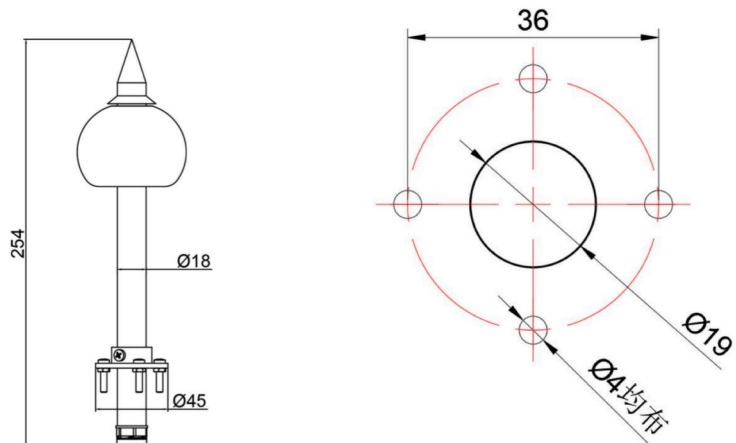
Electromagnetic Compatibility

## Application

It is widely used in various fields such as home, office, workshop, automobile measurement, industrial measurement, etc.

## Dimension

Unit:mm



## Specification

DC power supply (default)	10~30V DC
Power	0.1W (RS485,TTL), 0.15W (current type), 0.18W (voltage type)
Transmitter circuit operating temperature	-20 ° C ~ + 60 ° C, 0% RH ~ 80% RH
Output signal	Rs485, Current output: 4~20mA, Voltage output: 0~5V/0~10V, TTL
Communication Interface	485 communication (MODBUS-RTU) protocol Baud rate: 2400, 4800 (default), 9600 Data bit length: 8 bits Parity mode: none Stop bit length: 1 bit The default ModBus communication address: 1 Support function code: 03
Parameter settings	Configure via the 485 interface with the supplied configuration software
Resolution	0.1dB
Measuring range	30dB~120dB
Frequency Range	20Hz~12.5kHz
Response time	≤3s
Stability	Less than 2% in use period
Noise accuracy	±0.5 dB (in reference pitch, 94 dB @ 1 kHz)
Load capacity	Voltage output: Output resistance ≤250Ω
	Current output: ≤600Ω
IP Grade	IP65

## Order guide

ES-N601	Noise sensor		
	CODE	Type	
	A	Flange mounted	
		CODE	Signal output
		1	4-20mA
		2	0-10V
		3	0-5V
		4	RS485
		5	TTL
ES-N601	A	4	Order example