

Noise Sensor



1. INTRODUCTION

1.1 Product Overview

THE NOISE SENSOR uses the specialized Noise concentration sensor probe as core detecting device, which has the characteristics of wide measurement range, high precision, good linearity, good versatility, convenient using, easy installation, long transmission distance and moderate price.

1.2 TECHNICAL SPECIFICATIONS

Description	Details
POWER SUPPLY	Nominal 220V AC
POWER	0.4W
OUTPUT SIGNAL	RS485
RESPONSE TIME	≤2S
MEASUREMENT RANGE	30dB-130dB
RSEOLUTION	0.1dB
MEASUREMENT ERROR	3%F.s
FREQUENCY RESPONSE	35Hz-20Khz
WORKING TEMPERATURE	-20-60°C
WORKING HUMIDITY	15-90%
POWER CONSUMPTION	≤0.15W (@12V DC , 25°C)
PRESSURE RANGE	0.9-1.1atm
Display	7 Segment LED Display

2. BOM (BILL OF MATERIAL)

List of Devices

Name	Number
Cabinet box	1
Miniature Circuit Breaker	2
Power Supply 24V DC	1
Display with inbuilt Controller	1
RS 485 Isolator	1
SENSOR	1
USB TO 485 DEVICE (Optional)	1
Calibration Certificate	1
Warranty Certificate	1

3. COMMUNICATION PROTOCOL

Communication Basic Parameters

PARAMETERS	CONTENT
Protocol	RTU
Data bits	8 bit
Parity bit	None
Stop bit	2
Baud rate	19200bps (Can be customized, but recommended – default for better communication)
Input Register	770 Read Only

4. BLOCK DIAGRAM OF ONLINE NOISE MONITORING SYSTEM

