BSWA MAZZIT 630001



MA231T 1/2-inch Preamplifier

Features:

• Suitable for 1/2-inch pre-polarized microphone

ICCP power supply preamplifier

• Frequency response: 10 Hz ~ 100 kHz (±0.2 dB)

Attenuation: 0.3 dB (typ.)

Connector: TNC

Optional TEDS (IEEE.1451.4)

Applications:

- Common acoustic measurement
- Application of Sound Level Meter



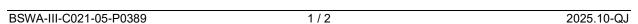
MA231T is 1/2-inch ICCP power supply preamplifier developed by BSWA, which is suitable for MP series 1/2-inch pre-polarized microphones. It is a low-noise and high-quality preamplifier that can be used in a variety of acoustic applications and it's particularly suitable for use with sound level meters.

The main function of the preamplifier is impedance change, since the output impedance of the microphone is above $G\Omega$, it cannot be directly connected to the common data acquisition equipment. The high input impedance and low output impedance of the preamplifier can reduce the output impedance of the microphone to less than $100~\Omega$.

MA231T does not provide polarization voltage, so it is only applicable to pre-polarized microphone. The power supply mode named ICCP (Integrated constant current power) can operate on a constant current power supply and give output signals in the form of voltage modulation on the coaxial cable. This kind of power supply mode can keep a very low signal attenuation even using a long cable. The MC1xx series power supply conditioner is required.

MA231T can choose to supply with TEDS to support read microphone information directly by data acquisition equipment, including microphone model, serial number, sensitivity, etc. BSWA TEDS microphone supports the IEEE 1451.4 standard. The version of 0.9 is used by default to be compatible with more data acquisition equipment. The version of 1.0 can also be selected according to user's requirements.

Specifications		
Diameter		1/2"
Polarization Voltage Support		0V (Prepolarized)
Frequency Response (Hz) (±0.2 dB)		10 ~ 100k
Attenuation (dB)		0.3 (typ.)
Maximum Output Voltage (Vp)		±8
Self-generated	A-weighted	<3.5 μV (3 μV typ.)
Noise	20 Hz ~ 20 kHz	<15 μV (8 μV typ.)
Input Impedance (GΩ ∥ pF)		15 0.4
Output Impedance (Ω)		<30
Power Supply		ICCP (2mA ~ 20mA, 4mA typ.)
DC Bias Voltage (V)		12±2
Operating Temperature Range (°C)		-30 ~ 80
Operating Humidity Range (%RH)		0 ~ 95
Dimensions (mm)		Ø16 × 93.3





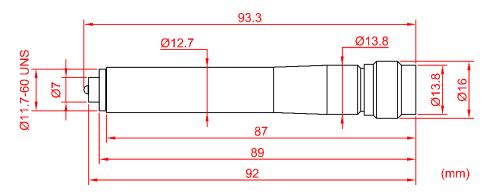
Product Brief

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Mounting Thread for Microphone	11.7 mm-60 UNS
Output Connector	TNC
Weight (g)	45.8
TEDS	Optional, IEEE 1451.4 compliant (default v0.9, optional v1.0)

Note: Unless specified otherwise, all values were measured at 23 °C, 101.3 kPa, 50 %RH by using 1 meters coaxial cable, 4 mA / 24 V power supply and microphone capacitance of 15 pF.

Dimensions



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