

1/2" ICCP & TEDS MICROPHONES

MPA231/215/216/MPA261/265/266(TEDS)



BSWA ICCP microphones, MPA231/215/216, utilize the outstanding performance of BSWA's MA211 ICCP preamplifier coupled with the high quality line of 1/2" prepolarized microphones. Using ICCP microphones have many advantages over traditional 200V polarized microphones.

- ICCP microphones are lower cost.
- They are able to use long cable lengths, up to 500 meters.
- They work with any ICCP input channel, which can be used for both acoustic and vibration measurements.

MPA231 offers BSWA's top of the line choice and is suitable for all acoustical measurements requiring Class 1 accuracy. The MPA231 is extremely stable environmentally. It is widely used in multi-channel sound measurements including acoustic arrays due to its excellent phase-matching and sensitivity characteristics.

SPECIFICATIONS

| ICCP MICROPHONES MPA231/215/216 and TEDS ICCP MICROPHONES MPA261/265/266 | | | |
|--|-----------------------|------------------|----------------|
| Models | MPA231/MPA261 | MPA215/MPA265 | MPA216/MPA266 |
| Microphone Capsule | MP231 | MP215 | MP216 |
| Diameter | 1/2 inch | | |
| Preamplifier | MA231/MA211 with TEDS | | |
| Optimized Frequency Response | 20 Hz ~ 20 kHz | 20 Hz ~ 12.5 kHz | 20 Hz ~ 16 kHz |
| Sensitivity | 40 mV/Pa | 40 mV/Pa | 30 mV/Pa |
| Max. SPL for 3% THD | 130 dB | 132 dB | 132 dB |
| Equivalent Noise Level | 18 dB (A) | 20 dB (A) | 24 dB (A) |
| Output Impedance | 110 ohms | | |
| Max. Output Voltage | 4.5 Vrms | | |
| Connector | BNC | | |
| ICCP Power | Current 4.0 mA | | |

MPA216 is BSWA's extremely low cost solution while still delivering accurate acoustic measurements. The MPA216 is recommended for indoor uses, where temperature and humidity are relatively stable over the measurement time period.

TEDS stands for the Transducer Electronic Data Sheet defined in IEEE 1451.4 standard.

MPA261/265/266 is ICCP TEDS microphone with a combination of BSWA 1/2" microphone and TEDS preamplifier MA211.

TEDS microphone includes such information as the microphone model, serial number, sensitivity, reference frequency, calibration date, and etc. The TEDS information will be read by an ever-increasing range of instruments. The TEDS microphone helps to facilitate plug and play and reduce the setup time of the system. The MPA series of TEDS microphones are sealed to the preamplifier with a calibration sticker.