

SOUND LEVEL METER

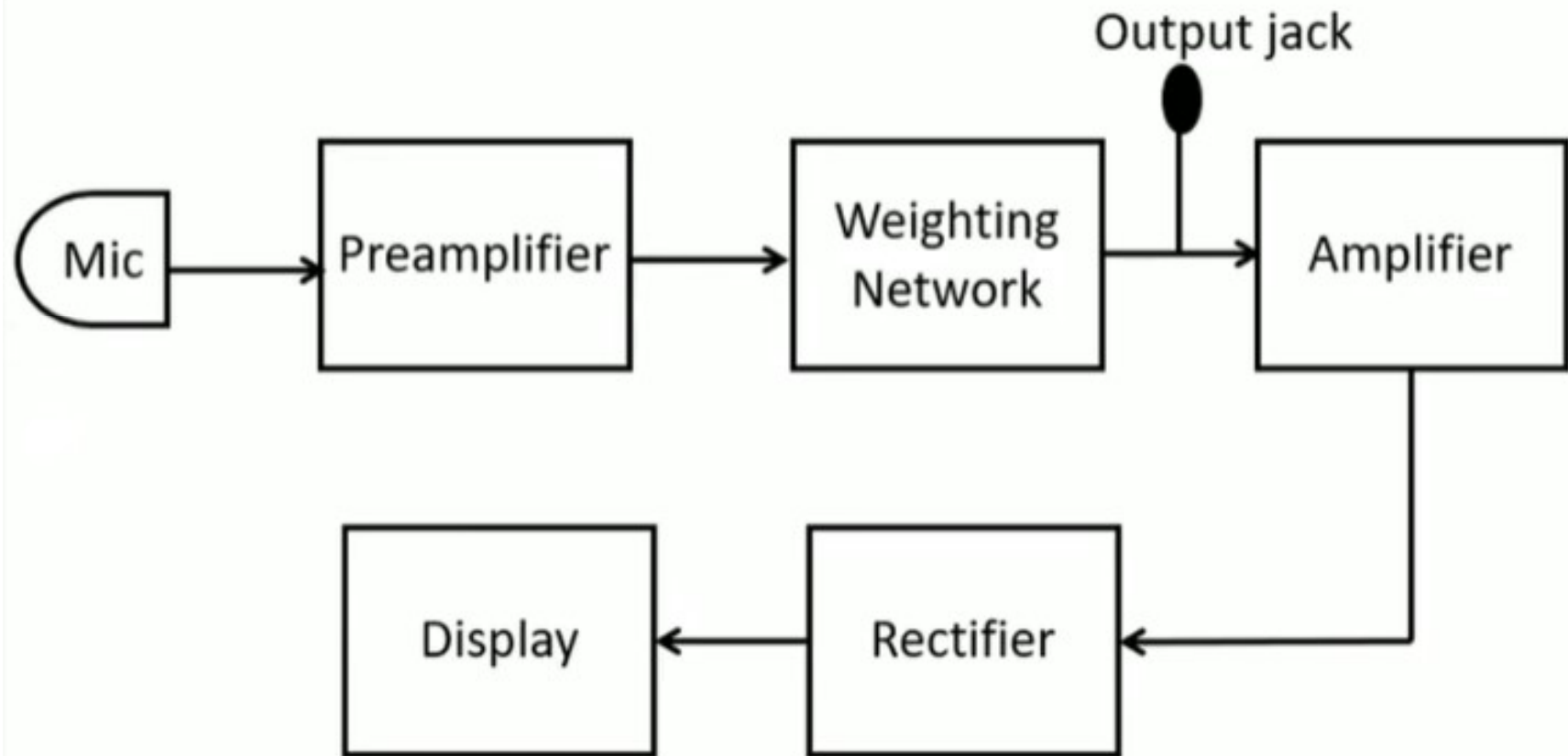
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2020 -21

- A sound level meter is a measuring instrument used to measure noise or sound levels by measuring sound pressure.
- Often referred to as a sound pressure level (SPL) meter, decibel (dB) meter, noise meter
- The sound is then evaluated within the sound level meter and acoustic measurement values are shown on the display of the sound level meter.
- The most common unit of acoustic measurement for sound is the decibel (dB)

CONSTRUCTION

- Sound-level meter is a device for measuring the intensity of noise, music, and other sounds. A typical meter consists of a microphone for picking up the sound and converting it into an electrical signal, followed by electronic circuitry for operating on this signal.

WORKING



WORKING

- At the microphone, the sound wave energy is converted into an electrical signal that is boosted in magnitude at the preamplifier.
- The electrical signal may be modified by the weighting network followed by a further boosting in magnitude through the amplifier.
- The rectifier converts the electrical signal from (AC) to (DC) to cause the display meter to register the sound pressure level directly in decibels.
- An output jack may exist to record or analyse the measured signal whenever desired.

Thank You