This diagram shows a Nexia CS accepting input from ten microphones. The microphones are located in ten separate rooms for monitoring infant patients on the Children’s Ward of a hospital. Output 1 of the Nexia CS is connected to an input on an MXA35 mixer/amplifier, which is driving monitor speakers at the nurse’s station. In the system design, the Nexia CS uses an Auto Mixer to keep all microphone channels turned off until sufficient audio signal is present to turn them on. Therefore, the monitor speakers at the nurse’s station are producing audio signals only when a child is restless or crying. In addition to the audio monitor speakers, a custom indicator panel has been provided, which alerts the nurses as to which patient/room requires attention. The indicator circuits on the custom panel are controlled by a Logic Box, connected to the Nexia CS remote control bus. When a microphone channel becomes active, the corresponding logic circuit lights the appropriate indicator. To further aid nurses in identifying the source of trouble, the Auto Mixer is programmed with a six second ‘hold-time’ on the microphone channels, allowing audio monitoring to continue for six seconds after the child has again become quiet. Logic Delay is added to the logic circuit, so room indicators will remain lit for up to a minute afterwards, before automatically resetting.