Sound server / player — Sound Alarm

DIGIcontrol-SA2/SP2

- IBB Sound server / player
- Support for up to 14 sound files on a TF card
- Auxiliary input for external sound sources
- Sound activation by any I/O event
- 24-bit DAC output, support for dynamic range 90dB
- Fully support FAT16 , FAT32 file system, max. 32G
- 2x 42W amplifier with speaker take over relays (SA2)
- Integrated 3W loud speaker (SP2)
- Power external with 24V/5A (SA2) or Bus power (SP2)
- IBB/S bus communication

The DIGIcontrol-SA2 sound server enables event or time-controlled playback of up to 14 sound files stored on an SD card.

An input for external sound sources (radio, CD player, etc.) serves as a 15th sound source for sound reinforcement tasks. All events in the DIGIcontrol-3000 network can be used as a trigger for the targeted playback of one of the saved sound files.

An efficient amplifier with two 42W 4-8Ω loudspeaker lines allow direct connection of loudspeakers. Both outputs are equipped with a 2-pin switching relay. They are automatically activated when playing and can therefore take over existing loudspeaker lines in the event of alarm announcements.
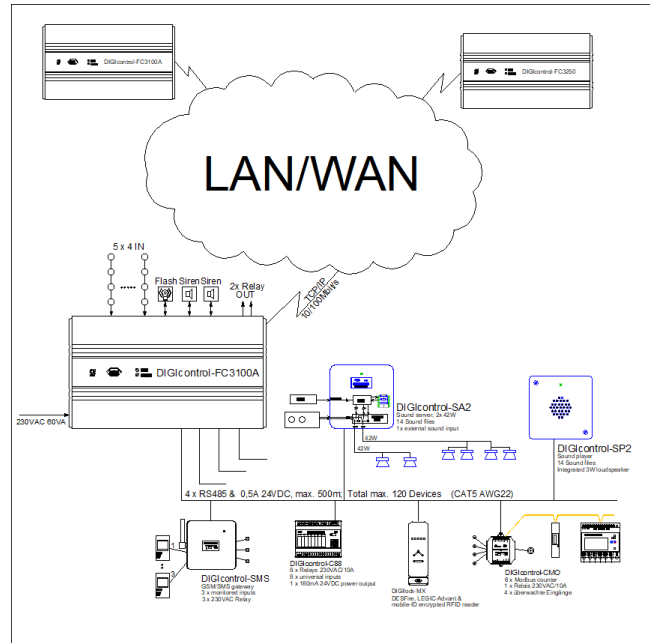
The DIGIcontrol-SA2 sound server only requires a bus connection and an external 24VDC/5A power supply. Due to the high efficiency of 90%, only a small heat sink is required in the housing. The volume can be adjusted in steps via the host software.

The SD card with a maximum of 32G must be formatted in FAT16 or FAT32. On the Mac, the partition table must also be set to Master Boot Record. Once the card is formatted, MP3 files can be copied onto it. The number of the sound files corresponds to the order in which they were copied onto the card. Spoken sound files, or "language files", can be recorded using a computer or laptop. Quick information about (alarm) events can be realized via different sound or voice files.

Depending on the event, the following three settings are available for the playback time:
• 1x complete play in the recorded duration
• Play with repetition until trigger is idle again
• Play for a predefined duration

The DIGIcontrol-SP2 sound player is the smaller daughter of the DIGIcontrol-SA2. Instead of an amplifier for external speakers, it has an integrated 3W speaker and can be powered from the IBB.

Technical Data:

DIGIcontrol-SA2:
40Mhz 89C51 CMOS microprocessor with 64kB flash memory, 2k EEPROM and 32kB SRAM for configuration parameters
FAT16, FAT32 file system for max. 32G TF-Cards
24-Bit DAC Output
Sampling rates of 8KHz, 11.025KHz, 12KHz, 16KHz, 22.05KHz, 24KHz, 32KHz and 44.1KHz
TDA3116D2 2x42W 4-8Ω amplifier
Class D Operation with 90% efficiency
2 x changeover relays for speaker line takeover
IBB 56kB RS485 Bus interface to Floorcontroller
Power supply with 24-28VDC/5A external
Temperature range : -10° to +50°C
Dimension: 114 x 114 x H 26 mm

Delivery Contents:
DIGIcontrol-SA2 complete with installation and wiring instructions. (External 24VDC/5A power supply needed)

Variant:
DIGIcontrol-SP2 as -SA2 but with integrated 3W speaker instead of 42W amplifier and no external sound input.

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