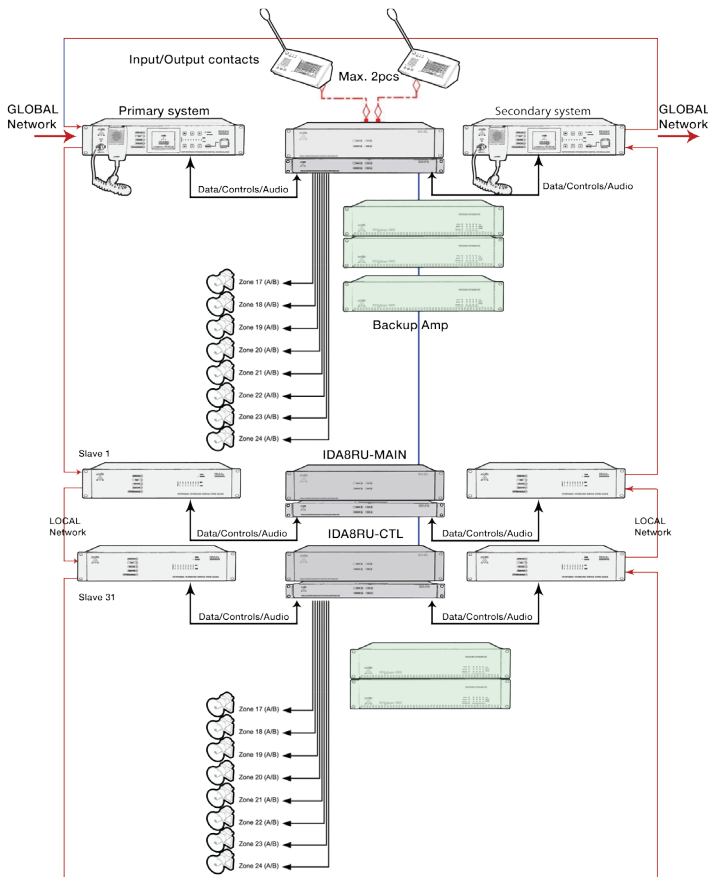


IDA8RU-MAIN/CTL/PDC

IDA8 REDUNDANCY SWITCHING UNIT

IDA8RU CHARACTERISTICS

- Case: 19" 2U (IDA8RU-MAIN), 1U (IDA8RU-CTL/PDC)
- Power supply: 2 x 24V DC redundant inputs
- Redundancy:
 - IDA8RU-MAIN: 8 speaker lines, 8 amplifiers, 2 backup amps, 2 PSS inputs
 - IDA8RU-CTL: 8 x Output contacts, 9 x alarm inputs
 - IDA8RU-PDC: 8 x 0dB inputs or outputs, 2 PSS inputs, 2 Tel inputs
- Switching: Electro mechanical relays
- Switching time: 6 seconds (IDA8 watchdog period)
- Connections: RJ45, Screw terminals blocks
- LED indication: power, Primary IDA8 system active, secondary IDA8 system Active
- Control inputs: Primary IDA8 system watchdog, secondary IDA8 system watchdog
- Control outputs: Primary IDA8 system active, secondary IDA8 system Active, Expansion



IDA8RU-MAIN / Redundant Matrix Switcher



IDA8RU-PDC / Redundant Ancillary Audio Switcher



IDA8RU-CTL / Redundant Contact Switcher



PAVA systems in highly sensitive places such as nuclear power stations, underground industrial systems or places where a 100% reliable PAVA system is imperative will require redundancy on any part of the PAVA system. Redundancy is a widely-used expression that needs to be further specified into a required level of redundancy. In normal PAVA systems where other communication means are available, spare amplifiers and surveillance of essential components is considered enough. Higher levels of redundancy may call for A/B wiring of the loudspeaker lines where loss of the A or B line or system still ensures a minimum coverage of 50% of the venue. (as detailed in BS5839:part 8).

However, even that may not be enough in situations where the PAVA is the only and last means of communication. In this case an even higher level of redundancy may be required. At this level, not only the amplifiers have redundancy but also the central equipment will have a full back-up facility. This is what we call Full-Redundancy.

IDA8RU provides this high level of redundancy for both IDA8C Controller and IDA8S(AB) Slave units. IDA8RU is a thorough switching device that acts as a Primary / Secondary switching device for:

IDA8RU-MAIN / Digital audio and processing matrix IDA8C, paging consoles and interfaces:

IDA8RU-CTL / Monitored and normal contacts IN and OUT.

IDA8RU-PDC / Auxiliary audio IN and OUT, two additional paging consoles and telephone line: