

When it is easier to have one speaker run, for example if requirements on zoning are low or the sizes of zones are very large, 70/100V audio distribution could be the preferred solution. This can also be the case, if an existing installation is expanded or an out-dated central unit replaced where 70/100V lines already exist.

It is even possible to create a hybrid system which combines digital I-PAM technology with 70/100V systems. For example 70/100V audio distribution is adequate in a car park, while in the department stores of the same facility a digital Public Address system is used.

The VAB-Line is appropriate for both types of installation, analogue and digital.

The VAB1 controller provides analogue I/O to bridge the gap between fully digital and 70/100V technology. Furthermore KLOTZ DIGITAL invented the “Line Manager”, which is linked to the VAB1 Controller via DSS Bus and guarantees monitoring of amplifiers and analogue speaker lines in accordance to IEC 60849 as part of 70/100V systems.

Line Manager – all Features at a Glance:

- Permanent surveillance of amplifier channels
- Permanent surveillance of speaker runs through impedance measurements
- Error messages for short-circuit and interruptions of speaker run
- 8 audio channels and control/surveillance on a single CAT5 cable
- Automatic switch on redundant channels in case of errors

Advantages of VAB-Line 70/100V Line Manager Solution:

- Convenient distribution of 8 audio channels via digital bus (DSS Bus) to Line Manager units
- Safety in operation due to full surveillance of the entire System: Matrix – Line Managers – Amplifiers – Speaker Lines - Speakers
- Fail-safe operation with up to 4 redundant channels in case of amplifier failure
- Flexibility to use any type of amplifier on the market.
- Usage of 20kHz pilot pulse makes it inaudible and provides lower energy consumption

The VAB-Line combines 70/100V systems with digital technology successfully.

