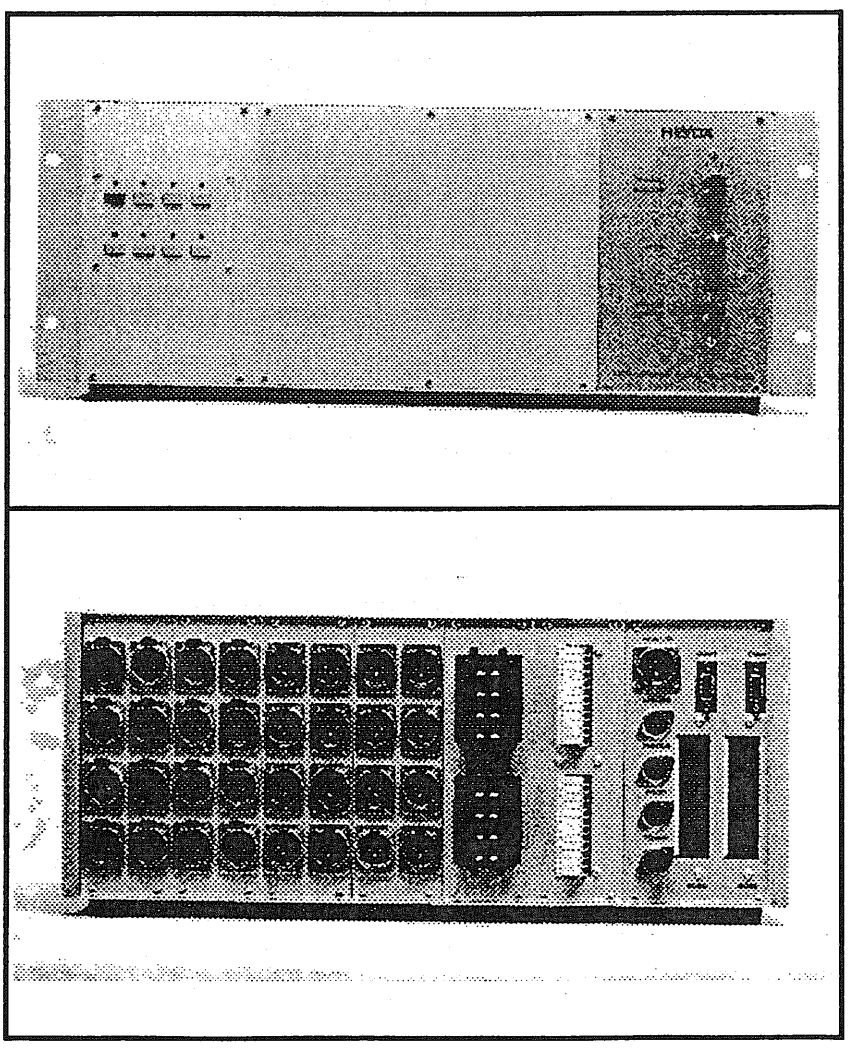
INTERN

LOGGING SYSTEM CONTROLLER

L S C 8



REVOX

Features

- The LSC-8 is a universal unit which in the field of audio logging performs the central function of audio distribution and control.

- When radio and telephone communications need to be logged over extended periods of time, versatile custom solutions can be offered based on tape recorders of the REVOX series C.

- When 4 or 8-channel machines type C274 and C278 are used, the date and time can also be recorded because a clock chip is standard equipment in the C-series.

- The interfaces of these machines are standardized and present no connection problems because prefabricated cables can be used.

- To make sure that the audio log is absolutely complete, the short (approx. 300 ms) start-up time from the wear-free standby mode is compensated by a digital audio delay unit.

  Gaps in the audio log resulting from equipment manipulations (tape change, rewind) can be prevented by connecting a second tape recorder. This adds additional security to the logging system.

- Up to 8 tape recorders of the REVOX C-series can be connected via the RS-232 audio distributor. Also non-addressable units, for example a tuner, can be integrated by means of the four switch-controlled RS terminals.

- Like the delay circuit boards, also the input boards feature a 4-channel design. For telephone inputs they are equipped with electrical isolation and on/off-hook detection. The radio inputs are balanced, transformerless, and equipped with level detection.

- With the fader start cabling, two tape recorders can be operated in flip-flop mode (mutual concatenation). If the processor board option is used, the individual machines can be changed over via the RS interface.

Programming:

- The INTEL 8052 AH processor is equipped with an 8 KB BASIC interpreter.

- The programs can be burned directly into the 16 KB EPROM where they are protected against power failure. For automated sequences and logging as well as special audio circuits, the system can also operate autonomously without permanent connection of a PC.

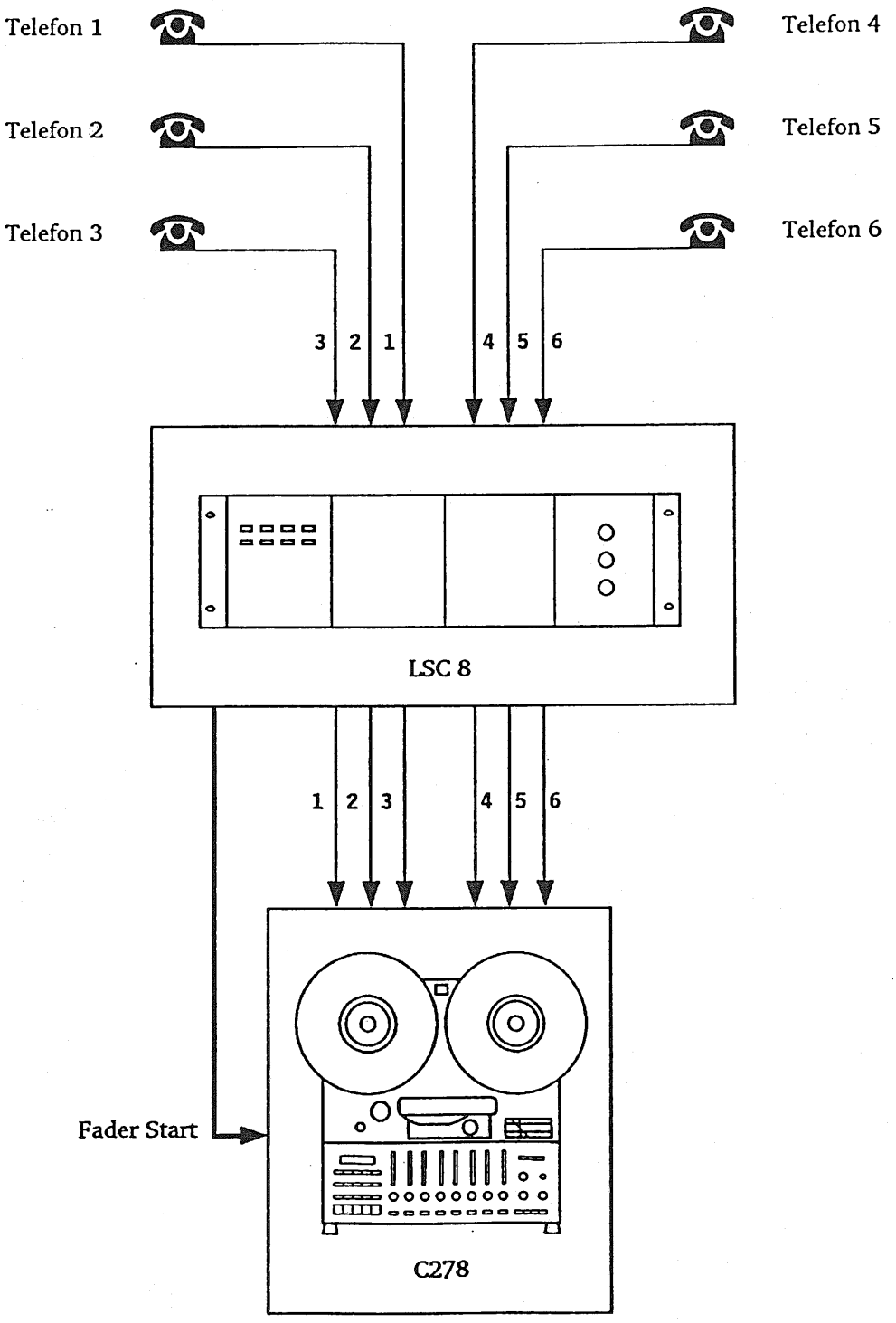
- With the universal operating unit the LSC-8 can be adapted to the program to be executed. Three momentary-action push buttons and 4 self-holding push buttons with one LED each are available for user programming.
- Standard software modules are supplied which enable the user to program his own execution sequences in BASIC.

Variety of applications

- Air traffic control
- Police and fire departments, ambulance services
- Traffic control centers (railway, navigation, etc.)
- Public services
- Television and broadcasting corporations, press centers
- Courts, simultaneous translation installations
- Power distribution centers
- Mining and large-scale industry

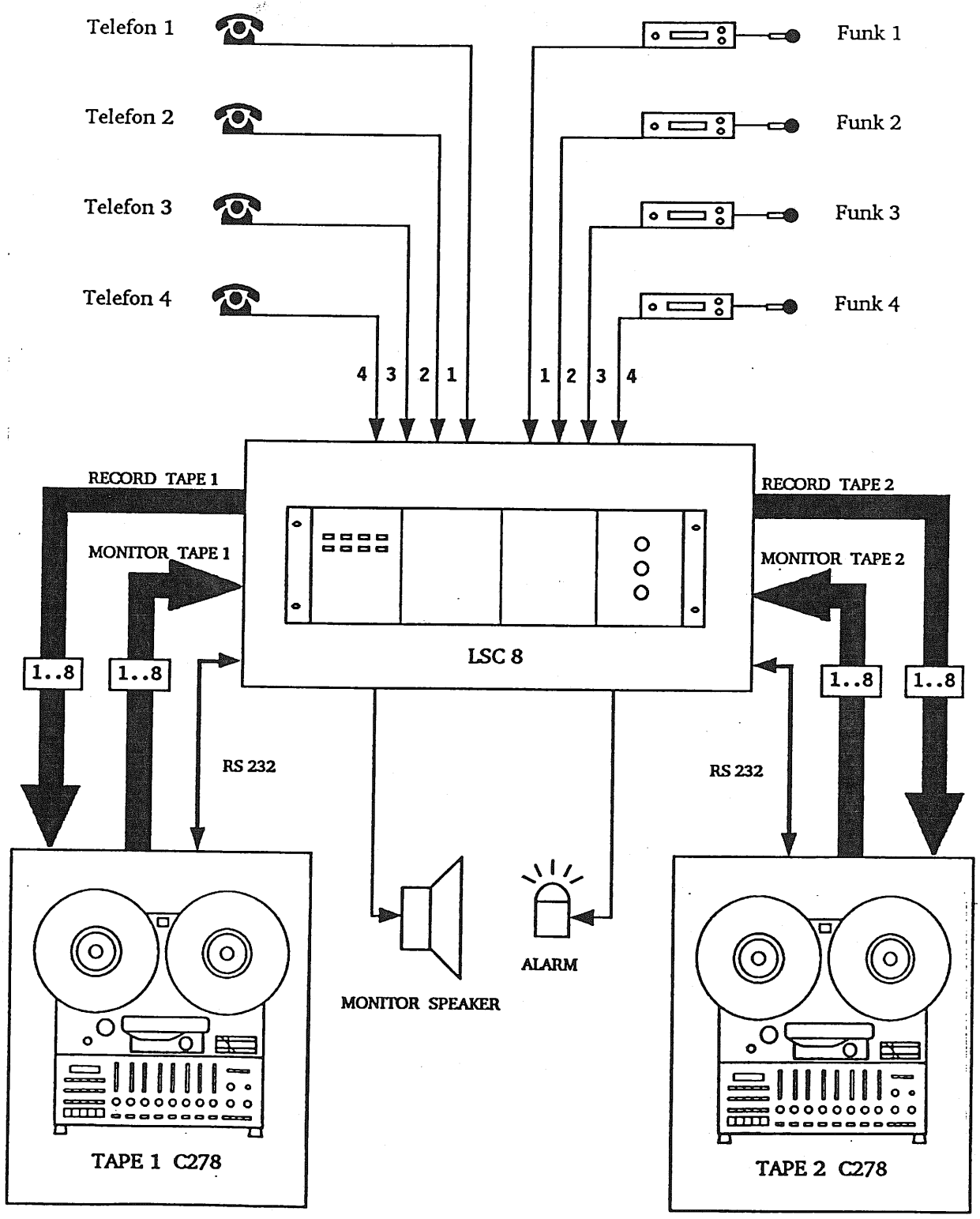
Application example 1:

The recording command for the tape is triggered by the telephone sensor directly via the fader start. Loop mode with rewind to the start of the tape can easily be implemented. The date and time information can be recorded on channel 8.



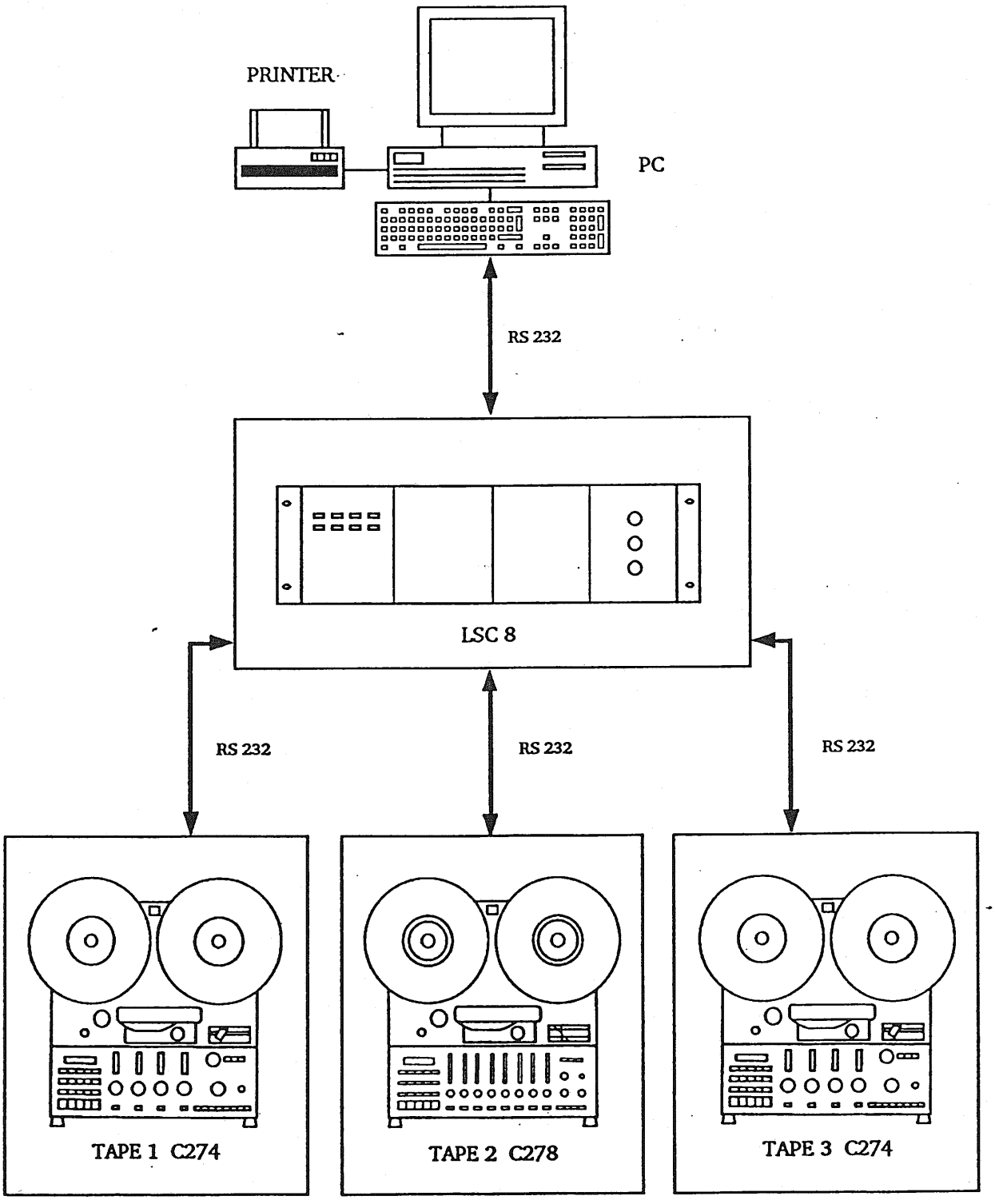
Application example 2:

Four radio communication recordings (level controlled and digitally delayed). Four telephone sensors is isolated inputs (from the hook contact).
When the end of tape 1 is reached or a malfunction occurs, the processor automatically switches to tape 2 which now performs all logging functions. If neither unit is operational, an audible and visual alarm are initiated. The monitor branch can connect the audio channels to an external monitor speaker.



Application example 3:

If the control program changes frequently, the following configuration is advantageous.
The PC performs various control functions:
Emulator/debugger/program burn-in for the 8052 AH processor.
Other supporting applications: event tracing, analyses, and remote control.



Technical data

Balanced input transformerless
- Maximum sensitivity
  For 0 dBu into balanced output: ..... +12 dBu - 5dBu -22 dBu
  (selectable with jumper)
- Input impedance: ..... > 15 kohm
- Max. input level: ..... 22 dBu at max. sensitivity
- Frequency response: ..... 30 Hz to 20 kHz +/- 1 dB
- Signal-to-noise ratio on balanced output: ..... -65 dBu
- Signal-to-noise ratio on balanced output: ..... -70 dBu
- AGC control range: ..... 30 dB
- Adjustable after-running time with
  fader start control: ..... 2 to 30 seconds

Balanced input with transformer (for telephone)
- Maximum sensitivity
  For 0 dBu into balance output: ..... -7 dBu -28 dBu
  (selectable with jumper)
- Input impedance: ..... 24 kohm
- Max. input level: ..... 35 dBu (depending on gain)
- Frequency response: ..... 200 Hz to 15 kHz +/- 2 dB
- Signal-to-noise ratio (linear) on balanced output: ..... -65 dB - 60 dB (depending on gain)
- Signal-to-noise ratio (weighted) on balanced output: ..... -70 dB - 65 dB (depending on gain)
- AGC control range: ..... 30 dB

Monitor:
- Gain from monitor input
  to monitor output: ..... 1 dB
- Input impedance: ..... 22 kohm
- Max. input level: ..... 24 dBu

Digital delay
- Frequency response for -20 dBu on balanced output: ..... 30 Hz to 8 kHz +/-3 dB
- Signal-to-noise ratio (weighted) on balanced output: ..... -60 dBu
- Delay time: ..... 312 msec

Balanced output
- Output impedance: ..... 150 ohm
- Nominal output level: ..... 0 dBu

Speaker output
- Max. output into 8 ohm: ..... 1 W

Supply: ..... 12 to 15 VAC
..... typ. 1.5 A (depending on configuration)

Accessories
- Autolocator for accessing the data to be analyzed
- Simple logging applications and background systems can also be implemented with a B77 LS and B77 SLS as well as cycle control.

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