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KBT 401, Keyboard Terminal

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Abstract:

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1. Main Characteristics

The KBT 401 keyboard terminal is an input device intended for use in connection with the RC 4000 or the RC 7000 telemultiplexers. The device is self-contained, with its own power supply, control logic and interface to a data transmission channel. The interface to the data transmission channel meets the CCITT recommendation V.24, and is galvanic separated from the keyboard terminal powersystem.

The transmission channel is a local cable without modem equipment (cable length not exceeding 1000 meters), a private line including modem equipment or the switched telegraph or telephone networks including modem equipment.

The KBT 401 can be connected directly to the RC 4000 telemultiplexer, RC 4124, or the RC 7000 telemultiplexer.

The transmission mode is asynchronous, and the transmission speed can be set up to 110, 200, 600, 1200 or 2400 baud.

The character set used is any 7-bit character set extended with an even parity bit.

The keyboards are of modular construction, i.e. the power supply, the control logic, and the interface to the transmission channel is basic. The number of keys, the encoding of the keys and the layout of the frame may be customer specified.

The maximum number of keys which may be placed in the frame is 80. Rows of keys may be displaced by a quarter key-module, i.e. 4,76 mm, or a multiple of this.

Consequently keys can be arranged to be vertical in line or staggered to conform to ISO/TS-95 keyboard specifications.

2. Operation

When a key is depressed, the corresponding character is transmitted, and an acoustic signal is generated as an indication to the operator that the operation was accepted.

A protection circuit examines if two or more keys are depressed. If so, nothing is transmitted from the keyboard terminal. This roll-over protection remains active until all depressed keys have been released.

As an integral part of the roll-over protection circuits a safe anti-bounce function is implemented.

3. Characteristics

Transfer rate	: 110, 200, 600, 1200 or 2400 baud.
Character code	: any 7-bit with even parity.
Number of keys	: max. 80 (5x16)
Key module	: Rafi: Solid state contactless switch module. (Operating movement: 4 mm Operating force: 60 g + 10 g Life expectancy: > 10 ⁸ operations).
Cable length (without modem)	: Max. 1000 meters.
Power	: 220 Vac + 10 o/o , 50 Hz, 30 VA.
Environment	: temperature: 0 - 40° C. Relative humidity: 30 - 70 o/o.
Size and weight	: width: 40,0 cm depth: 19,0 cm height: 8,5 cm weight: 4.0 kg.