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UT-16
Universal Transfer Unit

The UT-16 Universal Transfer Unit is designed as a general purpose switching device for use with telephone, data, and low power electrical signals. The unit is arranged as 16 two-wire circuits. Each circuit has an input, a normal output, and a transfer output. The two wires of each circuit are designated as tip and ring, reflecting the telephony orientation of the UT-16.

UT-16 features include 16 circuits of transfer, two LED status indicators, a manual transfer switch, an auxiliary relay contact, a return to normal mode delay timer, and universal powering. Also included are provisions for a normally open, normally closed, or logic level signal to control the operating mode. The unit is completely self-contained in a wall-mounted cabinet. Interconnections are made using standard 25-pair telephone-type plugs and a terminal strip. This method provides simple, time-efficient installation and maintenance.

The UT-16 Universal Transfer Unit is intended to serve as a useful “building block” for special applications. Up to 16 two-wire input pairs can be switched between the normal and transfer outputs. The switching is done “metallically” using with electromechanical relays. This method provides excellent AC and DC isolation between connected and uncommitted circuits.

A typical application would be with two-wire telephone circuits. These circuits could include loop start trunks, ground start trunks, auto ring-down circuits, and private lines. Because the UT-16 is configured to transfer 16 independent pairs, four- and six-wire E&M circuits, four-wire leased lines, and other special circuits can be connected.

Data lines that do not require special shielding can switched by the UT-16. A prime example would be 10-BaseT local area network cabling. A normal and emergency routing scenario could be created, with the UT-16 providing the switching.

The UT-16 can also be considered as a giant A/B switch, with 32 individual inputs connecting to 32 normal and transfer outputs. Low power control signals can be switched between normal and emergency equipment.