Digital to FSK Interface Unit
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SYSTEM DESCRIPTION
Extends the range of digital voltages using a Frequency Shift Keying (FSK) Interface Unit. The Digital to FSK Interface Unit allows eight discrete optically isolated digital input signals to be converted to a FSK signal which can then be sent over twisted pair copper wire over a much greater distance. It also decodes the incoming FSK signal and provides eight discrete optically isolated digital output signals capable of sinking at least 50 ma. This method of signal transmission is much less sensitive to interference and can be used to extend the digital signals from four feet to four miles. The Digital to FSK Interface Unit also provide LEDs to indicate the status of the input and output signals. Transmit and Receive LEDs provide an indication of FSK signal line status as well as a “Communication Good” LED and optically isolated output to indicate proper communication.

SPECIFICATIONS
Enclosure 5.75 inches x 3.75 inches x 2.0 inches Metal Box
Temperature Controlled Environment -10°C to 50°C
Power AC Adaptor 120 VAC to 9 VDC @ 500 ma

Communication
△ Protocol Bell 103 FSK
△ Originate Mode
  △ Tx Frequency Mark = 1270 Hz, Space = 1070 Hz
  △ Rx Frequency Mark = 2225 Hz, Space = 2025 Hz
△ Answer Mode
  △ Tx Frequency Mark = 1270 Hz, Space = 1070 Hz
  △ Rx Frequency Mark = 2225 Hz, Space = 2025 Hz
△ Carrier Detect -44 dbm to –47 dbm
△ Power Output -9 dbm (typically)
△ Phone Line Half Duplex, 600 Ohm, Two Wire
△ Transmit Levels -6 dbm, -9 dbm, -12 dbm

Optical Isolated Outputs
△ Max Voltage 60 VDC
△ Max Current Fused @ 50 ma

Optical Isolated Inputs
△ Max Voltage 32 VDC
△ Input Impedance 11 K Ohms