

3.4 RD431LMS specification

Housing:

Standard 19" Chassis (2U height)
Mounting brackets 19" and 23" compatible

Electrical:

Power Supply: -40 to -60 volts DC. Nominal -48V.
Maximum Supply Current: 4A (in-line fast blow fuse).
Tone Output Power: 30 watts +/-1 watt.
Maximum Out put: 50V rms. (100V rms with special authorization).
Output Frequencies: Unique to customer (see unit).
East/West relay output Voltage: -48V nominal.
Fused at 200mA.
Isolated Chassis.
Frequency range: 50Hz to 9kHz.
Frequency resolution: 10ppm/0.05Hz.

Environmental:

Operating Temperature: 0C to 40C.
Storage Temperature: -20C to +70C.
Relative Humidity (operating): 20% to 55%.

Protection:

Output terminals are isolated from chassis. They will withstand a common mode voltage of 160V DC relative to ground and a differential voltage of 160V dc or 90V AC at 60Hz for personnel safety.

Surge Clamp Voltage: 200V DC.
Maximum Impulse Discharge Current: 5kA (CCITT 8/20 waveform).

Power supply has reverse polarity protection
Power supply fuse rating 4A.

Telemetry Interface:

Control Relays: Accepts Form A & C type.
Response time 50ms.
Alarm Relays: Isolated, contact resistance less than 10 ohms.

DTMF Interface:

Operation either standard telephone or 4-wire 600-ohm Order Wire System.
DTMF Tones: Standard.
Minimum DTMF tone duration: 50ms.
DTMF tone input levels: -30Bm to 0dBm.
Voice response levels: +6dBm to 0dBm.
600 ohm isolating transformers on input/output.

NB: 0dBm equates to 1mW of power into a 600-ohm load (775mV).

Display:

2 x 20 alpha numeric LCD display.

Serial Port:

An RS232 standard serial interface via 9-way "D" connector on rear panel.