

VLF Demodulator Equipment

Part No. DG-457-7-100 (Dual) or DG-457-7- 101 (Single)



FRONT & REAR VIEW



MSK DEMODULATOR MODULE



POWER SUPPLY UNIT

Key Features

- Demodulation Modes: FSK, MSK1, MSK2 or MSK4 at 50 baud
- IF input: 600 ohm, 0dBm, 1KHz IF signal
- Four Data Output Channels + Strobe per demodulator
- Data Formatting: NATO STANAG 5030/MIL-STD-188- 140A
- Local or Remote Control: Serial Connection
- Dual Demodulator Configuration: Two independent VLF Demodulators with separate IF feeds
- Dual power supplies, one per demodulator
- Audible Alarm with Mute Facility
- Time of Day input: PTFE (Station Standard)
- 1MHz and 1PPS inputs: PTFE (Station Standard)
- Extensive Built in Test Facilities
- Alarm relay contact outputs for external system
- STANAG 4724 RED REM compliant
- Available as a single or dual demodulator configuration

Technical Specifications

Interfaces

IF Input	1 KHz, 0dBm, 600 ohm
1 MHz Input	1MHz, 13dBm +/- 2dBm, Sinewave, 50R, Harmonic Distortion < 40dB below fundamental
Data Output	V.11/RS422 or V.28/RS232 Standard
Audio Output	600 ohm (Headset compatible)
Fault Output	Fault relay changeover contacts (volts free)
External Remote Control	Individual RS-232 standard (V.28) serial remote control interfaces are provided for each Demodulator

Electromagnetic Compatibility

Radiated	CE, EN 60945, MIL-STD-461F CE101, CE102 and CS114
Conducted	CE, EN 60945, MIL-STD-461F RE101 and RE102
Susceptibility	CE, EN 60945, MIL-STD-461F RS101, RS103 and CS109

Power

Rack Mount	Voltage: 83-253 VAC Frequency: 47-63 Hz Power Factor: <25 W in all modes of operation
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Compatibility

Standards	NATO STANAG 5030 Edition 4 and 4724 RED REM
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Physical Properties

Size (HxWxD)	2U x 482mm x 413mm
Weight	Rack mount: 12 kg
Cooling	Natural convection
Climatic	Operating Temperature: 0°C to +55°C Storage Temperature: -20°C to +70°C Relative Humidity: 95% (non-condensing)

Upgradable Options

Demodulation Modes	FSK, MSK1, MSK2 or MSK4 at 75 baud
Data Output	Ethernet
External Remote Control	Common Remote Control V.28/RS232; Common or Individual Ethernet
Standards	NATO STANAG 5065 4724 RED BLACK REM
Power Supplies	Dual Redundant
Time of Day input	V.11/RS422 (1 PPS/TOD TD1 Format), NTP

