FSG-7016 TECHNICAL SPECIFICATIONS

Leading Particulars

Model: FSG 7016 System, 7,000 CH, Article-No. F10165
Frequency Range: 225.000 MHz to 399.975 MHz = 7,000 channels
Frequency Selection: 16 pre-set channels, together with 1 out of 3 different TX outputs (1 W / 0.4 W / 0.1 W or RX mode only)
Operating Mode: Simplex
Modulation: AM A3E, 350 ... 3,000 Hz
Power Supply: Detachable, rechargeable 12 Vdc nickel-cadmium battery pack, 1,400 mAh, with built-in temperature sensor. External 10 Vdc to 15 Vdc via 10-pole accessory connector, input current 1.2 A maximum. Switched 12 Vdc output for attached accessories, drain 150 mA maximum.
Input Current: Standby (STBY): 42 mA, RX: 150 mA, TX: 0.4 ... 1.2 A

Transmitter Characteristics:

Power Output: Pre-set 0.1 W /0.4 W /1.0 W or RX mode only, programmed together with channel frequency
Frequency Accuracy: ≤+ 2.5 ppm (max. ±1 kHz), O°C to +40°C/32°F to 104°F
≤+ 5 ppm (max. ±2 kHz), -20°C to +60°C/-4°F to 140°F
Spurious/Harmonic Radiation: -60 dBc/50 Ohm
Carrier Noise level: ≥40 dB, 1 kHz, 75% modulation
Adjacent Channel Suppression: > -75 dB at > ±25 kHz, 60% mod. +10 dB/1,250 Hz
Modulation AF Response: 350 ... 3,000 Hz ≤-6 dB (0 dB = 1 kHz)
Modulation Distortion: ≤10% at 90% modulation, 400 Hz ... 3,000 Hz
Modulation Capability: Built-in modulation compressor, >80% AM at 300 MHz, 0°C to +40°C / 32°F to 104 of >70% AM at 225 MHz... 340 MHz, -20°C to +60°C / -4°F to 140°F

Modulation AF Input level: 0.5 mV to 10 mV for ≥75% AM, adjustable in 7 steps

Duty Cycle: Transmit Time-Out- Timer limits transmission electronically to 5 minutes to save battery capacity, and to prevent blocked channel.

Receiver Characteristics:

Sensitivity: ≤1μV / -107dBm for 6dB S+N/N
Selectivity: ≥ 8 kHz / -6 dB
Spurious Frequency Rejection: ≥ -70 dB, including IF image rejection
Audio Power Output: ≥ 1W (internal speaker)

Physical and Environmental Data:

Overall Dimensions: 75 x 38 x 225 mm (WxDxH), without antenna 2.95" x 1.5" x 8.86" (WxDxH), without antenna 1.2 kg (2.6 lb.), including battery, removable/adjustable carrying strap and helical antenna

Operating Temperature Range: -20°C to +60°C / -4°F to 140°F
Slightly Degraded Performance: -30°C to +60°C / -22°F to 140°F
Charging Temperature Range: +10°C to +40°C /50°F to 104°F
Submersible (with antenna attached): 1.0 m (3 ft) for 30