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: \leq + 2.5 ppm (max. \pm 1 kHz), O°C to +40o/32°F to

104°F

≤+ 5 ppm (max. <u>+</u> 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: \geq -75 dB at \geq + 25 kHz, 60% mod. +10 dB/1 ,250

Hz

Modulation AF Response: $350 \dots 3,000 \text{ Hz} \leq -6 \text{ dB} (0 \text{ dB} = 1 \text{ kHz})$

Modulation Distortion: ≤10% at 90% modulation, 400 Hz ... 3,000 Hz

Modulation Capability: Built-in modulation compressor,

> 80% AM at 300 MHz, O°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: $\leq 1 \mu V / -107 dBm$ for 6dB S+N/N

Selectivity: \geq 8 kHz/ -6 dB

Spurious

Frequency Rejection: ≥ -70 dB, including I F image rejection

Audio Power Output: \geq 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