



# DP405S

## Digital 446 Portable Radio

Digital Licence-Free 446 Radio  
Emergency and Lone Worker Features  
Standard 2000mAh Lithium Ion Battery  
Full Range of Accessories



KIRISUN Digital / Analogue 446 Radio

DP405S

# DP405S 446 Portable Radio

## KEY FEATURES AND BENEFITS

### 466 Licence Free

The DP405S does not require an Ofcom licence to operate in the UK. Simply take the radio from the box and use.

### Supports Both Analogue and Digital Modes

The DP405S is a digital radio that provides enhanced audio quality and helps reduce background noise and interference. Digital transmission also enhances radio coverage to ensure you achieve the best performance possible. The DP405S can also be programmed to be compatible with analogue 446 radios. This programming can be provided by your Kirisun radio supplier.

### Loud and Clear Audio

The DP405S has a 1w high-power loudspeaker, which combined with advanced digital voice encoding and forward error correction, brings loud and clear audio, even in a noisy environment.

### Long Battery Life

The TMDA technology used within the DP405S, along with power-saving features, enables the battery to provide up to 36 hours use, under normal conditions, in digital mode. This is provided by the standard high capacity lithium ion battery supplied with the radio.

### Emergency Call and Lone Worker

Enhance user safety with Emergency Call and Lone Worker functions. These features are programmable and can be activated by your supplier using the service software.

### Battery Indicator

The DP405S has a button which, when pressed, will provide an audible message of the battery charge status. This will ensure you always know when it is time to re-charge your radio battery.

### Channel Annunciation

As you change channel, the channel number is announced from the internal radio speaker. This allows you to easily find the correct channel if the radio is on your belt or if you are in poor light conditions.

### Compact Size

The DP405S is small and lightweight and can be easily clipped to a belt or carried in a pocket. The radio controls are easily accessed and make this radio very easy to use.

### Rugged Design

The DP405S is a very rugged radio and meets IP54 for dust and water spray protection.

### Accessories

There is a range on accessories available for the DP405S including six-way chargers, earpieces, headsets, carry cases and straps.

## SPECIFICATIONS

### General

Frequency Range	446-447MHz
Programmed Channels (Digital)	16
Channel / Zone Capacity	256/16
Channel Spacing	25kHz/12.5kHz (Analog) 12.5kHz (Digital)
Operating Voltage	7.4V DC $\pm 20\%$
Battery	2000mAh Li-ion (Standard)
Battery Life (5-5-90 Duty Cycle, High TX Power)	Analog: 30hours @ 2000mAh Digital: 36hours @ 2000mAh
Frequency Stability	$\pm 1.5$ ppm
Antenna Impedance	50 $\Omega$
Dimension (H-W-D) (with battery, without antenna)	116mm * 54mm * 31mm
Weight (with standard battery)	280g (2000mAh)
LCD Display	None

### Receiver

Sensitivity - Analogue	0.22 $\mu$ V @ 12dB SINAD
Sensitivity - Digital	0.22 $\mu$ V @ BER5%
Selectivity	60dB @ 12.5kHz, 70dB @ 25kHz (TIA-603) 60dB @ 12.5kHz, 70dB @ 25kHz (ETSI)
Spurious Response Rejection	70dB @ 12.5kHz/25kHz (TIA-603) 65dB @ 12.5kHz/25kHz (ETSI)
Inter-modulation	70dB @ 12.5kHz/25kHz (TIA-603) 70dB @ 12.5kHz/25kHz (ETSI)
Hum and Noise	40dB @ 12.5kHz, 45dB @ 25kHz
Rated Audio Power Output	1W @ 16 $\Omega$
Rated Audio Distortion	$\leq 3\%$ (typically)
Audio Response	+1~-3dB
Conducted Spurious Emission	57dBm @ 1GHz, 47dBm @ 1GHz

### Transmitter

RF Power Output	$\leq 0.5$ W
FM Modulation	11K F3E @ 12.5kHz 16K F3E @ 25kHz
4FSK Digital Modulation	12.5kHz Data Only: 7K6 FXD 12.5kHz Data & Voice: 7K6 FXW
Modulation Limiting	$\pm 2.5$ kHz @ 12.5kHz, $\pm 5$ kHz @ 25kHz
Radiated Spurious Emission	-36dBm < 1GHz, -30dBm > 1GHz
FM Hum & Noise	40dB @ 12.5kHz, 45dB @ 25kHz
Adjacent Channel Power	60dB @ 12.5kHz, 70dB @ 25kHz
Audio Response	+1~-3dB
Audio Distortion	$\leq 3\%$
Digital Vocoder Type	AMBE+2™
Digital Protocol	ETSI-TS102 361-1,-2,-3

### Environment Specifications

Operating Temperature	-30° ~ +60°
Storage Temperature	-40° ~ +85°
ESD	IEC61000-4-2 (Level4) $\pm 4$ kV (Contact) $\pm 8$ kV (air)

## STANDARD ACCESSORIES

### Basic Package:

- DP405S Radio and Antenna
- Desk Charger (Optional)
- 2000mAh Lithium Ion Battery
- Belt Clip
- Lanyard



KTC-50A1



KBC-760Q



KB-760Q



KBJ-17



KGX-03



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