



DP 3600/3601

Display Portable Radios



- 1 Flexible, menu-driven interface with user-friendly icons or two lines of text for ease of reading text messages.
- 2 Tri-color LED indicator for clear, visible feedback of calling, scanning and monitoring.
- 3 Emergency button to alert supervisor or dispatcher in an emergency situation. With DP 3601, location coordinates can be sent to dispatcher using GPS.
- 4 New accessory connector meets IP57 submersibility specifications and incorporates RF, USB and enhanced audio capability.
- 5 DP 3601 includes integrated GPS module.
- 6 Large, easy-to-use navigation buttons allow easy access to intuitive menu-driven interfaces.
- 7 Radio housing meets IP57 specifications; submersible in 1 metre of water up to 30 minutes
- 8 Powerful, front projecting speaker.
- 9 Three side and two front programmable buttons for easy access to favourite features. New features such as one-touch calling and quick text messaging are made even easier through programmable button access.
- 10 Large, textured push-to-talk button. Provides good tactile response and easy access, even when wearing gloves.
- 11 160 channels.

Display Portable Radio Standard Package

- Display Portable Radio
- Antenna - Standard whip included with DP 3600; GPS Monopole included with DP 3601
- NiMH 1300 mAh Battery
- IMPRES™ Single Unit Charger
- 2.5" Belt Clip
- Quick Reference Guide

Additional Features

- Enhanced call management
 - Encode/decode: emergency, remote monitor, push-to-talk ID, radio check, all call, radio disable
- Dual-mode analogue/digital scan - facilitates a smooth migration from analogue to digital
- Free-form and quick text messaging

MOTOTRBO™ System Components and Benefits

DP 3600/3601 Display Portable Radios

Specifications

GENERAL SPECIFICATIONS

| | |
|--|-------------------------------------|
| Channel Capacity | 160 |
| Frequency | 403-470 MHz |
| Dimensions (HxWxL) | |
| with NiMH Battery 1300mAh | 131.5 x 63.5 x 37.2 mm |
| with Lilon Std Battery 1500mAh | 131.5 x 63.5 x 35.2 mm |
| with Lilon FM Battery 1400mAh | 131.5 x 63.5 x 37.2 mm |
| Weight | |
| with NiMH Battery | 430 g |
| with Lilon FM Battery | 370 g |
| with Lilon Std Battery | 360 g |
| Power Supply | 7.2V nominal |
| Average battery life at 5/5/90 duty cycle with battery saver enabled in carrier squelch and transmitter in high power. | |
| IMPRES Lilon Std Battery | Analogue: 9 hrs / Digital: 13 hrs |
| IMPRES FM Lilon Battery | Analogue: 8.5 hrs / Digital: 12 hrs |
| NiMH Battery | Analogue: 8 hrs / Digital: 11 hrs |

RECEIVER

| | |
|--------------------------------|---------------------------------|
| Frequency | 403-470 MHz |
| Channel Spacing | 12.5 kHz/ 25 kHz |
| Frequency Stability | +/- 1.5 ppm (DP 3600) |
| (-30° C, +60° C, +25° C) | +/- 0.5 ppm (DP 3601) |
| Analogue Sensitivity | 0.35 uV (12 dB SINAD) |
| | 0.22 uV (typical) (12 dB SINAD) |
| | 0.4 uV (20 dB SINAD) |
| Digital Sensitivity | 5% BER: 0.3 uV |
| Intermodulation | 65 dB |
| Adjacent Channel Selectivity | 60 dB @ 12.5 kHz, |
| | 70 dB @ 25 kHz |
| Spurious Rejection | 70 dB |
| Rated Audio | 500 mW |
| Audio Distortion @ Rated Audio | 3% (typical) |
| Hum and Noise | -40 dB @ 12.5 kHz |
| | -45 dB @ 25 kHz |
| Audio Response | +1, -3 dB |
| Conducted Spurious Emission | -57 dBm |

TRANSMITTER

| | |
|-------------------------------|------------------------|
| Frequency | 403-470 MHz |
| Channel Spacing | 12.5 kHz/ 25 kHz |
| Frequency Stability | +/- 1.5 ppm (DP 3600) |
| (-30° C, +60° C, +25° C) | +/- 0.5 ppm (DP 3601) |
| Power Output | |
| Low Power | 1 W |
| High Power | 4 W |
| Modulation Limiting | +/- 2.5 kHz @ 12.5 kHz |
| | +/- 5.0 kHz @ 25 kHz |
| FM Hum and Noise | -40 dB @ 12.5 kHz |
| | -45 dB @ 25 kHz |
| Conducted / Radiated Emission | -36 dBm < 1 GHz |
| | -30dBm > 1GHz |
| Adjacent Channel Power | -60 dB @ 12.5 kHz |
| | -70 dB @ 25 kHz |
| Audio Response | +1, -3 dB |
| Audio Distortion | 3% |
| Digital Vocoder Type | AMBE++ |
| Digital Protocol | ETSI-TS102 361-1 |

GPS

Accuracy specs are for long-term tracking (95th percentile values > 5 satellites visible at a nominal -130 dBm signal strength)

| | |
|-------------------------------------|--------------|
| TTFF (Time To First Fix) Cold Start | < 1 minute |
| TTFF (Time To First Fix) Hot Start | < 10 seconds |
| Horizontal Accuracy | < 10 meters |

ENVIRONMENTAL SPECIFICATIONS

| | |
|------------------------|--------------------|
| Operating Temperature* | -30° C / +60° C |
| Storage Temperature | -40° C / +85° C |
| Temperature Shock | Per MIL-STD |
| Humidity | Per MIL-STD |
| Water Intrusion | EN60529 - IP57 |
| Packaging Test | MIL-STD 810D and E |

* With Lilon battery, operating temperature specification is -10° C / +60° C.

With NiMH battery, operating temperature specification is -20° C / +60° C

MILITARY STANDARDS

| Applicable MIL-STD | 810E | | 810F | |
|--------------------|---------|-------------|---------|---------------|
| | Methods | Procedures | Methods | Procedures |
| Low Pressure | 500.3 | II | 500.4 | II |
| High Temperature | 501.3 | I/A, II/A1 | 501.4 | I/Hot, II/Hot |
| Low Temperature | 502.3 | I/C3, II/C1 | 502.4 | I/C3, II/C1 |
| Temperature Shock | 503.3 | I/A, 1C3 | 503.4 | I |
| Solar Radiation | 505.3 | I | 505.4 | I |
| Rain | 506.3 | I,II | 506.4 | I, III |
| Humidity | 507.3 | II | 507.4 | - |
| Salt Fog | 509.3 | I | 509.4 | I |
| Dust | 510.3 | I | 510.4 | I |
| Vibration | 514.4 | I/10, II/3 | 514.5 | I/24 |
| Shock | 516.4 | I, IV | 516.5 | I, IV |

FACTORY MUTUAL APPROVALS - DP family of radios are certified by Factory Mutual Approvals as intrinsically safe for use in Division 1, Class I,II,III, Groups C,D,E,F,G, when ordered with the Factory Mutual approved battery option.

For more information please contact your local Motorola Authorised Dealer or Distributor



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