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.

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
- DP 3601 can transmit GPS coordinates

MOTOTRBO™ System Components and Benefits

DP 3600/3601 Display Portable Radios

Specifications

GENERAL SPECIFICATIONS

Channel Capacity	160
Frequency	136-174 MHz 403-470 MHz
Dimensions (H x W x L)	
with NiMH Battery 1300 mAH	131.5 x 63.5 x 37.2 mm
with LiIon Std Battery 1500 mAH	131.5 x 63.5 x 35.2 mm
with LiIon HiCap Battery 2200 mAH	131.5 x 63.5 x 39.2 mm
with LiIon FM Battery 1400 mAH	131.5 x 63.5 x 37.2 mm
Weight	
with NiMH Battery	430 g
with LiIon FM Battery	370 g
with LiIon HiCap Battery	375 g
with LiIon Std Battery	360 g
Power Supply	7.2 V nominal

Average battery life at 5/5/90 duty cycle with battery saver enabled in carrier squelch and transmitter in high power.

IMPRES LiIon Std Battery	Analogue: 9 hrs / Digital: 13 hrs
IMPRES LiIon HiCap Battery	Analogue: 13.5 hrs / Digital: 19 hrs
IMPRES FM LiIon Battery	Analogue: 8.5 hrs / Digital: 12 hrs
NiMH Battery	Analogue: 8 hrs / Digital: 11 hrs

RECEIVER

Frequency	136-174 MHz 403-470 MHz
Channel Spacing	12.5 kHz/20 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 @ 20/25 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 @ 20/25 kHz
Audio Response	+1, -3 dB
Conducted Spurious Emission	-57 dBm

TRANSMITTER

Frequency	136-174 MHz 403-470 MHz
Channel Spacing	12.5 kHz/20 kHz/25 kHz
Frequency Stability	+/- 1.5 ppm (DP 3600)
(-30° C, +60° C, +25° C)	+/- 0.5 ppm (DP 3601)
Power Output	
UHF	1 W and 4 W
VHF	1 W and 5 W
Modulation Limiting	+/- 2.5 kHz @ 12.5 kHz +/- 4 kHz @ 20 kHz +/- 5.0 kHz @ 25 kHz
FM Hum and Noise	-40 dB @ 12.5 kHz -45 dB @ 20/25 kHz
Conducted / Radiated Emission	-36 dBm < 1 GHz -30 dBm > 1 GHz
Adjacent Channel Power	-60 dB @ 12.5 kHz -70 dB @ 20/25 kHz
Audio Response	+1, -3 dB
Audio Distortion	3%
Digital Vocoder Type	AMBE+2
Digital Protocol	ETSI-TS 102 361-1, 2 & 3

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	< 2 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 LiIon battery, operating temperature specification is -10° C / +60° C.
With NiMH battery, operating temperature specification is -20° C / +60° C.

MILITARY STANDARDS

	810E		810F	
Applicable MIL–STD	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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