



THE VITAL CONNECTION

Easy Grip Knobs =

Large rotary knobs make volume adjustment and channel selection easy

Tx/Rx Indicator

Noise Canceling Mic

Software Defined Keys

Large Diameter Speaker

High-output loudspeaker to overcome ambient noise

Large PTT Button

High Resolution Display

High contrast display can be read easily in tactical situations and blacked-out during covert operations

Programming Keys

Simple to customize three keys and toggle switch

DTMF Keypad

Keys can be accurately pressed while wearing gloves.



GUARDIAN G25RPV100

Conventional Portable Radio



Project 25 Compliant Government • Military

Public Safety • Business

The Guardian G25RPV100 VHF P25 conventional portable by Datron is a feature rich, state-of-the-art radio designed for government, public safety and business applications. Fully digital, Guardian meets APCO Project 25 FDMA common air interface standard for compatibility with other Project 25 radios. Guardian also operates as an analog radio, offering full backward compatibility with conventional wideband FM systems. Use it with today's analog wideband radio systems and be ready for tomorrow's digital narrowband world — all in one great package!

- Multi-Mode analog and digital, wideband and narrowband, up to 4 banks, 16 zones and 256 channels total (314 channel optional)
- Shadow Channels allow communication using any mode - wide or narrowband, analog or digital, crypto or plain
- Full VHF Bandspread 136-174 MHz
- Cloning radio-to-radio programming
- Secure Transmissions Analog, OFB DES, and **AES Encryption options**
- OTAR Over the Air Re-Key
- GPS/Data Send GPS coordinates using Datron's optional GPS Microphone
- Multiple Battery Option



Contact us today: 760.597.1500 3030 Enterprise Ct, Vista, CA 92081 sales@dtwc.com • www.dtwc.com



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GUARDIAN G25RPV100

Conventional Portable Radio



MODEL DESIGNATION	GUARDIAN VHF PORTABLE RADIO
Datron Model Number	G25RPV100
Frequency Range	136.000 -174.000 MHz
RF Power Output	0.1 to 5 watts in steps
Banks, Zones, Channels	4 banks, 16 zones, 256 channels, 7 shadow
Battery Types and Capacities	NiMH, Li-Ion, AA clamshell
Approximate Battery Life (5/5/90)	>10 hours with
	high capacity battery
Voice Digital Mode Voice Coding	IMBE™ 4.4 kb
Frame Re-sync Interval	180 msec
Error Correction Method	RS, golay, hamming
Input Voltage	7.5Vdc
Dimensions w/o antenna (HxWxD)	7.13 "x 2.43 "x 2.87 ",
	Circumference 6.97 "
Weight (with standard battery)	14.6 oz
Case	Black polycarbonate
Temperature Range	-30°C to +60°C
Channel Spacing	12.5 and 25 kHz, selectable in
	2.5 or 3.125 kHz steps
FCC Type Acceptance Number	B3TG25RPV100, parts 74, 80,
	90, 210
Industry Canada	4109196829A

RECEIVER	(MEASUREMENTS	PER TIA/EIA	603C STANDARDS)

Sensitivity			
Digital Mode:	5%BER	-116 dBm or better	
Analog Mode:	12 dB SINAD	-116 dBm or better	
Spurious		-73.6 dB	
<u>Intermodulation</u>		-79.0 dB	
Audio Output Power		500 mW into 8 ohms	
Audio Distortion (at 1000 Hz)		3% @ rated power	
Maximum Frequency Separation		Full-band split	
Spurious Response Attenuation		75dB	
Adjacent Channel Selectivity		Analog 58dB, Digital 66.4dB	
RX Conducted Spurious Emissions		-92.7dBm	

TRANSMITTER (MEASUREMENTS PER TIA/EIA 603C STANDARDS)

RF Power Output	0.1 /0.5 /1 /2 /5 watts
	channel selectable
FM Hum & Noise (wide/narrowband)	-40/34 dB
FCC Modulation Designators	11K0F3E, 16K0F3E, 12K6F1E
Audio Distortion (at 1000 Hz)	2%
Audio Response (1000 Hz Ref.)	± 3 dB 300 -3000
	(EIA/TIA 603)
Frequency Stability (-30 °C to 60°C)	± 0.6 ppm
Maximum Frequency Separation	Full-band split
TX Unwanted Emissions (Conducted)	-91dB

GUARDIAN DES ENCRYPTION

GUARDIAN DES ENCRYPTION	
Encryption Keys	16
Code Key Generator	External
SBCF Analog DES Encryption	Standard feature
OFB Digital DES Encryption	Optional
AES Digital Encryption	Optional
OTAR	Optional

ENVIRONMENTAL	SPECIFICATIONS	MIL-STD-810F

<u>TEST</u>	METHOD	PROCEDURE
Low Pressure (Altitude)	500.4	<u>II</u>
High Temperature	501.4	<u> </u>
Low Temperature	502.4	1
Temperature Shock	503.4	
Solar Radiation (Sunshine)	505.4	1
Rain	506.4	
Humidity	507.4	1
Salt Fog	509.4	
Sand and Dust	510.4	I, II
Vibration	514.5	
Shock	516.5	

OPTIONAL FEATURES:

Fire Features

Adds an additional bank of 3 zones (48 additional channels), Custom Clone, Tone Pick List, P-25 Talkgroup Picklist and P-25 ID Pick List

GPS

Send/Receive GPS coordinates to track personnel and assets. Standard NEMA string at 4800 baud compatible with standard mapping software and custom applications

OTAF

Over the Air Re-Key. Change encryption keys over the air without the need to connect to a computer or key fill device.

AES P-25 Advanced Encryption Standard

DES OFB- P-25 Digital Encryption Standard

ACCESSORIES

Batteries:	
G25APB004	4000 mA NiMH Battery Pack
G25ABB006	3600 mA Li Ion Battery Pack
G25APB010	AA Battery Clamshell Black
G25APB011	AA Battery Clamshell Orange
G25APB015	Battery Eliminator (Cigarette Lighter Adapter)
Chargers:	
G25APC010	Single Unit Tri Chemistry Rapid Rate
C1EARCO20	6 Unit Tri Chemistry Papid Pate

Audio:
G25APS001 Speaker Microphone
G25APS003 3 Piece Surveillance Kit

Antennas: G25APA001 136-150 MHz G25APA002 150-152 MHz G25APA003 162-174 MHz

G25APA004
Carry Cases:

G25APD001 NYLON W/BELT LOOP
G25APD002 NYLON W/BELT CLIP
G25APD003 NYLON W/BELT SWIVEL
G25APD004 LEATHER W/BELT LOOP
G25APD005 LEATHER W/BELT CLIP

G25APD006 LEATHER W/SWIVEL
G25APD007 LEATHER CLAMSHELL W/BLOOP
G25APD008 LEATHER CLAMSHELL W/BCLIP
G25APD009 LEATHER CLAMSHELL W/SWIVL
G25APD010 CLIP BELT

136-174 MHz

G25APD010 CLIP BELT CLAMSHELL

Specifications subject to change without notice or obligation.

