

# 4731

## VHF P25 Desktop Radio



### General Properties

- Analog and Digital Mode
- Appropriate to P25 Standard
- User Notifications and Alerts
- LCD Screen
- Alphanumeric Keypad
- Graphical User Interface
- Call Log
- Caller ID
- 3 Level RF Power Level
- Channel Search
- Sending Time Limit
- Menu Authorization
- Computer Aided Repair
- Appropriate to MIL-STD-810C/D/E/F/G Standards
- Appropriate to TIA-102.CAAB-D and TIA-603-D standards

### Digital Mode Properties

- Group Call
- Individual Call
- Emergency Call
- SMS ( Radio to Radio)
- Data Communication (with data software pack)
- Status Message
- Encryption (Optional)
- Phone Book
- Call Alert

### Standards

IEC 61149	MIL-STD-810C/D/E/F/G
ETSI EN 300 086-2	TTTE Directive
ETSI EN 300 113-2	TIA-102.CAAB-D
ETSI EN 301 489-1,5	TIA-603-D
ETSI EN 60950	



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### General Technical Specifications

Modulation	Analog FM, C4FM (P25)
Channel Range	12,5 / 25 kHz (Analog) 12,5 kHz (P25)
Data Speed (Digital)	9,6 kb/s
Voice Encoder	4,4 kb/s IMBE
Encryption Algorithms	DES-OFB, AES
Channel Number	999
Power Supply	13,6 Vdc $\pm$ 20%
Power Supply Input Voltage	220 Vac $\pm$ 20%
Screen	64 x 128 pixel LCD
Keypad	20 key (backlit)
Dimensions (HxWxD)	67 x 297 x 227 mm
Power Supply Dimensions (HxWxD)	67 x 297 x 212 mm
Weight	3,50 kg
Operation Temperature	-30°C / +60°C
Storage Temperature	-40°C / +85°C
Humidity	95% @ 50°C

### Receiver Technical Specifications

Frequency Range	136-174 MHz
Audio Output Power*	7W / 8 $\Omega$
Sensitivity	
TIA 12dB SINAD / 5%BER**	$\leq 0,25\mu\text{V}$
ETSI 20dB SINAD / 1%BER	$\leq 0,35\mu\text{V}$
Intermodulation Rejection *	$\geq 80\text{dB}$
Spurious Response Rejection *	$\geq 90\text{ dB}$
Receiver Noise Ratio	
25 kHz channel	$\geq 48\text{ dB}$
12,5 kHz channel	$\geq 42\text{ dB}$
Audio Distortion *	$\leq 3\%$

### Transmitter Technical Specifications

RF Output Power *	10-90 W
Frequency Accuracy * (-30°C / +60°C; 25°C ref)	$\pm 2,5\text{ ppm}$
Modulation Limitation *	
25 kHz channel	$\pm 5,0\text{ kHz}$
12,5 kHz channel	$\pm 2,5\text{ kHz}$
Transmitted Spurious Broadcasting*	$\leq -20\text{ dBm}$

\* Values were measured in analog mode in accordance with EIA-603 under normal conditions.

\*\* Values were measured in digital mode in accordance with TIA 102-CAAA under normal conditions.

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