

Prima-DMV-1

Airborne VHF/UHF radio

PRIMA-DMV-1 radio provides telephone and telecode radio communication in VHF1-VHF2-UHF ranges between aircraft and ground control posts.



The radio provides:

- two-way simplex telephone and datalink radio communication on the fixed frequencies (FRF) mode;
- telephone and datalink information relaying (with similar radio set) in FRF mode;
- signals guard receiving on one of the emergency frequencies (by embedded guard receiver);
- operation on the preprogrammed radio communications channels.

Radio set does not require forced cooling

The radio set uses the following emission classes in the 30-175 MHz range:

Frequency range, MHz	Frequency spacing, KHz	Emission class
30.000-87.975	25	F3EJN
118.000–136.975	8.33; 25	A3EJN
100.000-149.975	25	A3EJN, F3EJN
220.000-399.975	25	A3EJN, F3EJN
138.000-173.975	25	F3EJN
156.000-173.975	25	G3EJN

Specifications:

Parameter	Value
Modulation frequencies range, Hz	
A3E, F3E, G3E	300-3400
A3E (118.000-136.975 MHz range)	300-2500
Frequency relative accuracy	$5 \cdot 10^{-7}$
Emission power, W	
A3E / A3E (118-136.975 MHz)	20/25
F1B, F3E, G3E	30
Receiver sensitivity, μ V	
A3E, F1B, F3E, G3E	1
A3E (guard receiver)	3
Guard receiver frequency, MHz	121.5; 156.8; 243
The quantity of programmable channels (FRF mode)	40
Duty cycle (Tx/Rx), min	1/3
Power supply, V	18-31
Power consumption, W (Tx/Rx)	240/40
Interfaces	
control	GOST 18977-79, Ethernet
panel	S1-Tch
Operating temperature, °C	
high/ low	+ 60/ - 60
Dimensions (WxHxD), mm	
transceiver on the mount	131.5x172x362.5
control panel	146x64x55
Weight, kg, max	
transceiver	5.4
control panel	0.4
mount	0.5
Mean time between failures, hours	5000

