

RSBN-4NM

SHORT-RANGE DECIMETRIC NAVIGATION SYSTEM



RSBN-4NM ground radio beacon is intended for:

- Continuous indication of aircraft or helicopter position for crew during flight
- Aircraft automatic driving to prescribed point in the system operational range
- Ground control of an aircraft working with the beacon



MAIN FEATURES:

- The basic navigation aid for air route, approach and landing of civil and defense aircraft and helicopters, equipped with airborne RSBN facilities
- Accuracy is higher than other similar systems
- Format of signals is not specified by ICAO, but principal specifications are met or exceeded
- Operation regardless of visibility conditions
- There are no analogues in Russia

COMPONENT PARTS:

- Control room in shelter
- Plan-position indicator repeater
- Remote control & signaling unit (RC&S)
- Power generating station (backup power supply)

SPECIFICATIONS OF RSBN-4NM

Accuracy of range detection	$\pm 200 \text{ m} \pm 0.03 \% \text{ of a distance}$
Accuracy of azimuth detection	$\pm 0.25^\circ$
Frequency range	decimetric
Number of frequency-coded channels	88
Flight altitude:	Operational range:
35 000 m	500-550 km
20 000 m	450 km
5 000 m	250 km
250 m	> 50 km

Operating conditions

Temperature	minus 50 to + 50 °C
Relative humidity	up to 98 % at + 35°C

Power supply

Circuit	380/220 V, 50 Hz
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Consumed power

<16 kVA

Dimensions and weight

L x W x H, m

Deployed Stowed

7,5x5x10 9,78x2,6x3,8

Weight, ready-fitted control room, kg 7000 (reduced by 4300 kg)

