

# ILS SP-90

## INSTRUMENTAL LANDING SYSTEM



The instrumental landing system **SP-90** (two-channel, two-frequency, ICAO Category I, II, III) is intended for ensuring of instrumental aircraft landing.



### MAIN FEATURES:

- Two sets of equipment, power supply and accumulators in a single cabinet
- Programmable digital shaping of modulated signals
- Keyboard data input
- Continuous tolerance check of radiated signals
- Built-in test control
- Remote control and setting of main parameters through telephone line by modem from PC located in any point of the world
- Additional meteorological and ornithological protection of localizer antennas

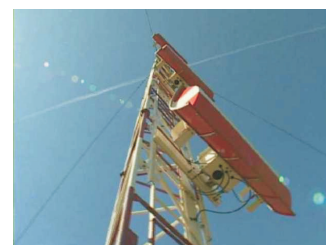
- Option of integration with the control system of navigational and landing complex ILS SP-90 / MB RMM-95 / VOR RMA-90 / DME RMD-90 / NDB RMP-200 is available



### COMPONENT PARTS:

- Localizer (LLZ)
- Glide-path beacon (GP)
- Remote control unit (RCU)

Two or three marker beacons or DME can be included in the system.



## SPECIFICATIONS OF SP-90

### Localizer (LLZ)

LPDA antenna system, elements in array:	16
Polarization	horizontal
Coverage zone, not less	46 km in zone $\pm 35^\circ$
Frequency range	108 - 112 MHz
Frequency stability	$\pm 0.002 \%$
Number of channels	40

### Glide-path radio beacon (GP)

Antenna system	"M"-type
Polarization	horizontal
Coverage zone, not less	18 km in zone $\pm 8^\circ$
Frequency range	329 - 335 MHz
Frequency stability	$\pm 0.002 \%$
Number of channels	40

### Tolerance Check

Check of Parameters - as per ICAO requirements  
Emergency switch overlogical "AND" (two checking units)

### Operating Conditions

Outside shelter	
Temperature	- 50 to + 50 °C
Wind Load	up to 50 m/s
Inside shelter	
Temperature	- 10 to + 50 °C
Relative humidity	up to 98% at +25°C

### Power Supply

Circuit, one phase	187-264V, 47-63Hz
Consumed power, not more	
main equipment of LLZ (GP)	250 VA
LLZ (GP) (with temperature control system is on)	4 kVA
Emergency power supply with accumulator battery, not less	2 hours

### Reliability

MTBF	10 000 hrs
Service life	15 years

\* specifications are subjected to change without prior notice