



69Л02

BUILT-IN RADAR INTERROGATOR
OF SYSTEM MK-XA, MK-XII AND RBS



UKROBORONPROM
Ukrainian Defence Industry

STATE ENTERPRISE «SCIENTIFIC
AND PRODUCTION COMPLEX

«ISKRA»

INTERROGATOR 69Л02

BUILT-IN RADAR INTERROGATOR OF SYSTEM MK-XA, MK-XII AND RBS

Built-in radar interrogator 69Л02 meets the requirements of NATO (STANAG 4193) and ICAO standards.

MAIN SPECIFICATIONS



PURPOSE

Built-in radar interrogator (BRI) 69Л02 of system Mk-XA, Mk-XII and RBS is designed to perform the following tasks:

- general identification of airborne objects equipped with radar transponders;
- individual identification of airborne objects equipped with transponders;
- cryptographically secure identification of airborne objects equipped with transponders and cryptocomputers;
- determination of the aircraft identification code to meet the needs of ATC;
- determination of the aircraft azimuth;
- determination of slant range to the aircraft;
- determination of the aircraft barometric altitude;
- determination of the flag of SPI pulse receiving;
- determination of the civil aircrafts' emergency codes;
- determination of the flag of military aircraft damage.

OPERATIONAL ENVIRONMENT:

Ambient temperature, °C	from minus 40 to plus 50
Relative humidity	98 % at 25°C
Location altitude, m	up to 3000
Dimension, mm	387x1077x575
Weight, kg	80



PRINCIPAL FEATURES

- High-stable solid-state transmitter with programmable output power.
- Log receiver with amplitude characteristic of variable slope.
- Line receiver with wide dynamic range.
- Digital programmable in-built extractor.
- Individual transmitters for main channel and side-lobe suppression channel.
- Side-lobe suppression system for transmitting.
- Programmable system of side-lobe suppression for receiving.
- Programmable STC system.
- Programmable one-turn and two-turn mode of interrogation interleaving.
- In-built automatic control and diagnostic system.

TECHNICAL CHARACTERISTICS:

Pulse power of each transmitter is not less than 2000 W reducible by 12 dB at interval 3 dB	> 2000 W
Receivers' sensitivity is not less than	-126 dBW
Side-lobe suppression on interrogation	+
Pulse amplitude difference between side-lobe suppression channel and main channel is	<1 dB
Side-lobe suppression on response within dynamic range	70 dB
Enabling to select interleaving of interrogation codes under one-revolution mode or two-revolution mode	+
Power consumed, W	<130
MTBF, h	10000
MTTR, min	30
Continuous running	without restriction
Turn-on time, min	less than 3
Power-supply system	DC voltage 27 V



STATE ENTERPRISE «SCIENTIFIC
AND PRODUCTION COMPLEX «ISKRA»
84, Magistralna St.,
Zaporizhzhia, 69071, Ukraine.
Tel.: +38 (061) 271-21-63
Fax: +38 (061) 271-21-52, 271-22-79
E-mail: iskra@iskra.zp.ua
www.iskra.zp.ua

ISKRA
SCIENTIFIC AND PRODUCTION
COMPLEX


UKROBORONPROM
Ukrainian Defence Industry

“UKROBORONPROM”
36, Dehtiarivska str.,
Kyiv, 04119, Ukraine.
Tel.: +38044-458-46-81
Fax: +38044-586-24-77
E-mail: kanc@ukroboronprom.com
www.ukroboronprom.com
Press Office: tel.: +38044-586-24-72
pr@ukroboronprom.com

