

CASE STUDY POLAND AIRBASE MINSK MAZOWIECKI

PROJECT KEY FACTS

Airport: Minsk Mazowiecki

Location: Poland

Application: Military Airbase

Runway: 2 513 m

Products: LED PAPI powered by 6.6 Amp

Buyer: Polish Military

Year of Installation: 2023



OVERVIEW

Airbase Minsk Mazowiecki embarked on a significant upgrade to modernize its lighting systems, focusing on Precision Approach Path Indicator (PAPI) technology.

Situated in Poland, this military airbase aimed to transition to LED technology to bolster operational efficiency and enhance safety during critical maneuvers.

UPGRADING THE PAPI AT AIRBASE MINSK MAZOWIECKI

Integration between LED PAPI technology and Thyristor Constant Current Regulator (CCR) was part of the project scope (incl. NVG compatibility). The project team mainly focused on electrical specifications, communication protocols, physical interface alignment - and finally power supply stability and testing.

To address these challenges, the S4GA team had to carefully coordinate and apply their technical expertise to ensure that the systems worked seamlessly and were compatible with each other.

S4GA PAPI LIGHTS: FEATURES AND INSIGHTS

The S4GA addressed all of the Airbase's needs and challenges encountered during the installation of PAPI Lights. Airbase Minsk Mazowiecki chose S4GA's LED PAPI technology for several reasons:

- Easy replacement of PAPI projectors without recalibration;
- Capability to monitor the LED PAPI using the existing Airfield Lighting Control and Monitoring System (ALCMS);
- NVG Compatibility with NATO standards;
- Fast installation, simplicity, and ease of maintenance;
- Technical expertise of the team to ensure seamless operation and compatibility.

NVG COMPATIBILITY

The installed LED PAPI system was the NVG version, which underwent testing at the airbase during commissioning for compatibility with NATO standard NVG equipment.

With a range of features tailored to meet the unique requirements of military airbases, S4GA's lights offer unparalleled precision and reliability, including compatibility with NVG, remote monitoring capabilities, higher levels of illumination compared to competitors, and full compliance with ICAO, FAA, EASA, CASA requirements, and NATO standards.



S4GA PRODUCTS**S4GA LED PAPI
POWERED BY 6.6 AMP****CASE STUDY
AIRBASE MINSK
MAZOWIECKI****APPLICATION PHOTOS**