Safety solution for the industry

The mission of the ASE GROUP is to provide safety technologies and solutions for industry and infrastructure. Automatic Systems Engineering delivers industrial safety projects with know-how, analysis and training with ASE Expert. Specific industrial safety equipment, engineering solutions and services are provided by ASE Integrator.

Specific industrial safety equipment, engineering solutions and services are provided by ASE Integrator. With almost 30 years of practical experience in design, engineering and maintenance in various industries, we have developed and implemented specialized systems to support these activities.

At the that time, our ASE Safety Academy has delivered certified training for over 14 000 professionals from various industries and production plants in Poland to improve the competencies and hazard awareness of workforce.

Area of Business

- Chemical Industry
- Marine
- Pulp and Paper
- Oil and Gas
- Metals, Minerals and Mining
Our “Magazyn Ex” quarterly is a highly acclaimed form of industrial safety knowledge exchange. ASE also publishes books for professionals in the industry. We focus on cost-effective correlation of operating, maintenance and safety tasks.
Inspector-Ex®

Autonomous system for passportisation, inspection and management of equipment and installations

Inspector-Ex is a modern, autonomous system supporting passportisation and inspection of devices and installations. This is a useful tool for maintenance services, route operators and persons responsible for inspection of electrical and mechanical devices.

The Inspector-Ex provides reliable verification of the technical condition of the equipment and installation as well as the maintenance of the critical devices. Another advantage is the support for autonomous maintenance (AM).

The system uses modern digital mobile technology, reducing workloads for scheduling, data entry, data processing and minimizes errors occur. Organizes and simplify access to technical documentation, passports, certificates, photographic documentation or electronic reports.

The system is suitable for use in potentially explosive atmospheres.

More information:
www.inspectorex.pl
Functions

Inspector-Ex® is a modern system that uses the latest mobile technology

**PASSPORTIZATION:**
- Safety inventory
- RFID labelling
- Localization
- Electronic passport of the equipment (data base)

**PLANNING:**
- In accordance with the applicable regulations
- According to the requirements of the user
- Maintenance management
- Access to inspections carried out and planned

**INSPECTIONS:**
- Visual, close, detail
- Initial, sample, period
- Operators rounds
- Autonomous maintenance
- Metrological monitoring

**REPORTING:**
- Electronic version
- Direct access to current reports
- Access to technical documentation
- Including photographic documentation
- Data exchange with eg. SAP

**NEW TECHNOLOGY:**
- Mobile devices, smartphones
- Easy to operate
- Reduces paper documentations

**RELIABILITY:**
- Force the presence of the controller at the device
- Dedicated checklists
- Errors elimination
- Verifies metrological parameters
Dedicated checklists

- Individual approach
- Type and category of criticality
- Appropriate checklists
- According to the standards of the plant
- For devices, groups and installations

Critical Device Manager Wizard

- Device configuration
- Optimum work planning
- Support for the rout operators

Ordered prevention in one system

Operators have the ability to read and write local parameters such as pressure, temperature, vibration, etc. which provides proactive protection on installations and the creation of measurement history.
Electronic reports

The system generates and archives the electronic reports accessible to the authorized persons, providing quick access to the current documentations.

Report data can be shared with other systems such as SAP.
Notices about device and installation malfunctions

- Irregularity
- Errors
- Failures
- Actions and corrective works

Malfunctions, errors and failures notifications are entered into the system.

This option increases the efficiency of performing actions and corrective works than, for example - oral communication.
Electronic passports of the devices

- Electronic version
- Location
- Documentation
- Rating data
- Explosion protection type

For devices covered by the system, electronic passports are created. Devices are tagged with RFID tags.

Inspections is „on site”

- Access to the checklist after reading of the RFID
- Confirmation of the inspection
- Errors elimination
- The system enforces presence at the device and installation
Depending on the route operator’s function or route, system can be programmed to control part of the installation or critical equipment. This module ensures that the inspections have been completed in the correct manner.

The route operator module is customized to your needs.

Route operator / Autonomous Maintenance module

The Inspector-Ex includes a autonomous maintenance module for support the work of the route operators.
SYSTEM ARCHITECTURE

Autonomous structure allows for fast operation and ensures “lightness” of the system, which complements CMMS, ERP or SAP programs.

A central server for an MS SQL database and a Web fronted

Serial equipment inventory control station with barcode printer

Central equipment inspection scheduling workstation

VPN

CENTRAL

OFF-SITE LOCATION

Location No. 1

PDA-enabled client station

Web reporting (read-only)

Location No. 2

PDA-enabled client station

Location No. 3

PDA-enabled client station
Complex and modern safety system

Mobile application adapted to heavy working conditions

Simple one-touch operation
Barcode scanner and RFID reader
Clear and readable display
Explosion-proof design
Heavy duty device
Long battery life
Camera for photographic documentation
Input of measurement data and comments
Comparison of inspection costs using the classic inspection method and the Inspector-Ex® system

Expected costs using classical control methods

- Generation of an inspection schedule
- Inspection with paper forms on hand
- Inspection report data output to a database (e.g. MS Excel or Access)
- Development and management of a data archive

Expected cost when using the system Inspector-Ex®

- Equipment inventory control
- Visual inspections
- Detailed inspections
- Close inspections
Certified Safety

KDB Declaration no. 16.E.002 for Inspector-Ex®

Inspector-Ex® has been certified at notify body GIG KDB. An independent third-party verification has proven that Inspector-Ex® meets the requirements of EN 60079-17:2014 Explosive atmospheres – Part 17: Electrical installations inspection and maintenance.
Inspector-Ex® requires implementation and configuration.

ASE’s IT department provides:

- Supply and configuration of mobile devices, RFID tags, physical or virtual servers, PCs
- Inventory and RFID labeling
- Preparation of passports
- Adaptation to the specifics of the plant
- System startup
- Software developer support
- Training
- Service
Many benefits in one solution

Key benefits of Inspector-Ex:

- Creating databases and device passports
- Input of metrological parameters, such as temperature, vibration
- Scheduling of the inspections
- Put the collected data into the system after the inspection
- Creating and modifying the device control card
- Indication of possible nonconformities and further actions regarding equipment
- Data processing from past controls in terms of cost optimization
- Create device control reports
- Archiving reports
- Providing access to reports to authorized persons via web
- Remote configuration capability for the system administrators
References

**PGE GIEK S.A**
- 3500 devices: inventory, server, client station, PDA’s
- 1000 devices: server, client station, barcode printer, PDA’s

**EDF**
- 15000 devices: inventory, server, client stations, smartphones, data exchange with SAP

**PGNiG TERMIKA**
- 300 devices: server, client station, barcode printer, PDA’s

**Veolia**
- 3000 devices: server, client station, barcode printer, PDA’s

**NAFTOPORT**
- 1000 devices: server, client station, smartphones
Integrator of safety systems

• One place, one screen, all safety systems integrated
• The platform for supporting safety management systems of industrial facilities
• Proven product for industry
• Continuous monitoring and improvement of the reliability of key safety functions of industrial facilities and their effective implementation in case of adverse or catastrophic event
• Designed for efficient fulfilment of the requirements of SEVESO III in respect of the need for safety management system and other industry recommendations
• TSCom can be implemented step by step, which makes it possible to achieve better assurance and reassurance conditions for industrial facilities
The commercial success and a strong leading position of Inspector-Ex®, eStrażak and TSCom® software system solutions have enabled the ASE GROUP to apply innovation in industrial safety.

Our applications cover legal compliance, business organization and engineering.

**WE OFFER THE FOLLOWING:**

**Unmanned Aircraft Vehicles and service for industrial purposes:**

- analysis and feasibility studies,
- aerial services,
- training, research and development,
- inventory control.

**Simulators and trainers:**

- design,
- rescue simulators,
- industrial training tools,
- military
- law enforcements trainers.