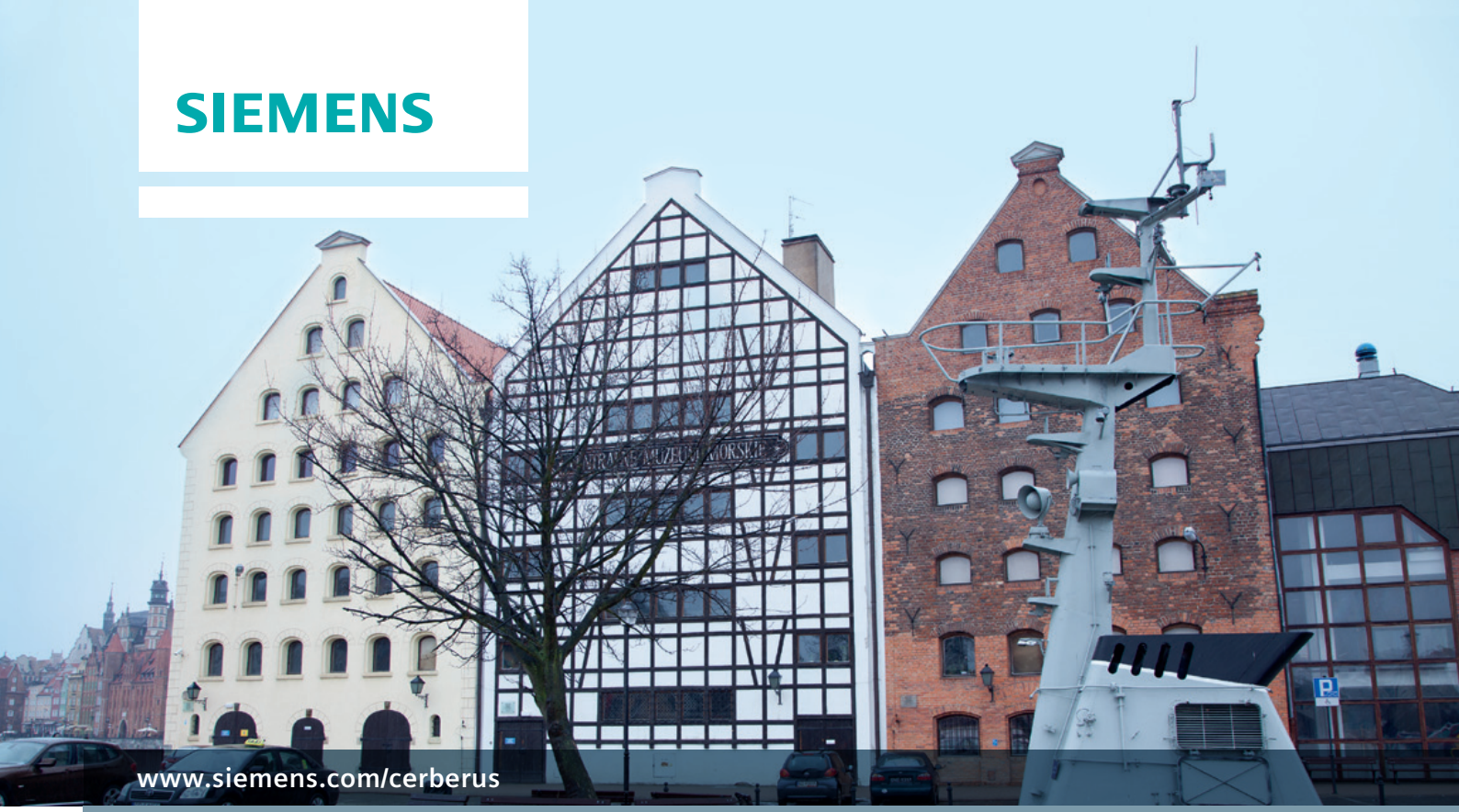
SIEMENS



www.siemens.com/cerberus

Reliable fire safety at the Polish Maritime Museum

Cerberus PRO from Siemens ensures maximum protection of visitors and unique historical objects.

With priceless exhibits and thousands of visitors each year, the Polish Maritime Museum needed a highly reliable fire protection system. The Cerberus PRO portfolio of innovative products proved to be the ideal choice.

The project

The Polish Maritime Museum in Gdańsk is the largest museum of its kind in Poland. The main building, the Granaries on Ołowianka Island, was built in the late Middle Ages. Moreover, the museum consists of other port facilities such as the Gdańsk Crane, a Maritime Culture Center and the vessel S.S. Sołdek.

The museum hosts extensive exhibitions of original historical objects, stored on both a permanent and temporary basis, and has thousands of visitors each year.

To protect visitors, the exhibits and the unique building structure, a replacement of the 15 years old fire alarm system in the Granaries on Ołowianka Island was necessary.

The challenge

As a specialist in fire protection, the Siemens Solution Partner AteCo was asked to prepare a fire safety concept. Due to the complex structure of the building, which consists of atriums, two-level exhibition halls and large staircases, it was certainly no easy project. “The complex and intricate structure of the building, combined with the high security needed to ensure the maximum protection of the museum’s exhibits and visitors, made this a particularly challenging task,” comments Dorian Śledź, CEO of AteCo.

In addition, to avoid interruptions of normal museum operations the project had to be completed in a short period of time.

The solution

Cerberus™ PRO proved to be the perfect choice for the museum. Linear smoke detectors were installed as the main solution to secure the two-level exhibition halls and the atriums. To ensure safe and efficient evacuation of people, the exhibition halls were further equipped with loop-powered sounder beacons. This solution led to easier installation and lower cabling and labor costs.

The stairways were too wide and high for a smoke removal system. Instead, an overpressure smoke control system was developed in accordance with the EN 12101-6 norm. The excess pressure is vented through the existing old chimneys, protecting the integrity of the building structure. The pressure control and the fire doors were easily integrated into the Cerberus PRO fire protection system according to EN 54 norm.

To maximize the safety of the museum's exhibits, the existing fire alarm system was replaced in phases.

The benefits

The project was a success, completed on time and without business interruptions. Thanks to the Cerberus PRO auto-configuration feature and the possibility of off-site programming, the required working time in the museum could be kept to a minimum.

The cooperation between the three parties was exceptional. "With AteCo and Siemens we found partners that care for our specific needs and offer an integrated fire safety concept. This gives us the confidence that our assets and visitors are safe at any time," states Szymon Kulas, Deputy Director of Administration at Centralne Muzeum Morskie. "As a Siemens Solution Partner we benefit from having a competent ally with a comprehensive portfolio of reliable fire safety products. Furthermore, Siemens always offers us full support for the most demanding projects," adds Dorian Śledź.

Highlights

- Cerberus PRO portfolio – reliable, high-quality products from Siemens
- Linear smoke detectors – ideal for large open spaces with high ceilings
- Loop-powered sounder beacons – easy installation and low cabling and labor costs
- Auto-configuration feature and off-site programming reduce the working time on site

Solution Partner

Building Technologies

SIEMENS

Siemens Switzerland Ltd
Infrastructure & Cities Sector
Building Technologies Division
International Headquarters
Gubelstrasse 22
6301 Zug
Switzerland
Tel +41 41 724 24 24