

Protective solutions

TASCs. Give the best changes to real time control of NBC-protective facilities

A number of facilities built by using design concepts based on "state of art"- shelter equipment designed in early 70's are facing problems in operating reliably and adjusting and balancing the NBC-protective facility to run as designed. The main cause of these problems originates from the fact that the facility is designed using equipment and systems that provide solution to NBC-protection only on the drawing board, but in real situation often fail to function as intended. Temet as a full range of shelter equipment manufacturer and systems provider has developed a system that overcomes these problems. The Temet TASCs provides a solution for existing facilities and is ideal for new facilities still on design stage.

No more unreliable overpressure valve control systems

Manual adjusting and balancing of the shelter ventilation system requires skilled operational staff. Furthermore, most of the shelters built by using overpressure valves for controlling the inside positive pressure cannot be closed completely gastight. The functional reliability of the shelter can be radically increased by introducing automation in the shelter ventilation control and providing the shelter with gastight valves for positive closing of both the intake and outlet air channels.

A cutting edge solution for customers building or upgrading an existing NBC-protective shelter facilities. Fully automated shelter control system having an interface for Chemical, Biological and Nuclear Detection system will step up your shelter to today's standards. The TASCs provides full control of the shelter ventilation in sheltering modes without risking the safety of the protected personnel in any operational situation.



The personnel in operational shelters shall be able to perform their designated work. The work required to operate the shelter ventilation system has to be minimized.

NBC-filtration and Air Ventilation systems inside operational shelters

The current NBC-filtration systems are often build as semi-automatic systems with electrical blower but having all other system functions manual. Correct operation of this type of system requires a lot of attention from the shelter operational staff, and this time is taken away from their actual designated work. Modern NBC-protective systems are designed with minimum requirements for auxiliary power system, and manual hand-crank back-up for the Air Handling Units are not used anymore.

TEMET ESL-TASCs NBC-filtration units are smart

Operational shelters shall have integrated NBC-detection / filtration system that provides toxic free safe environment for the occupants and gives them the freedom to focus on their actual tasks.

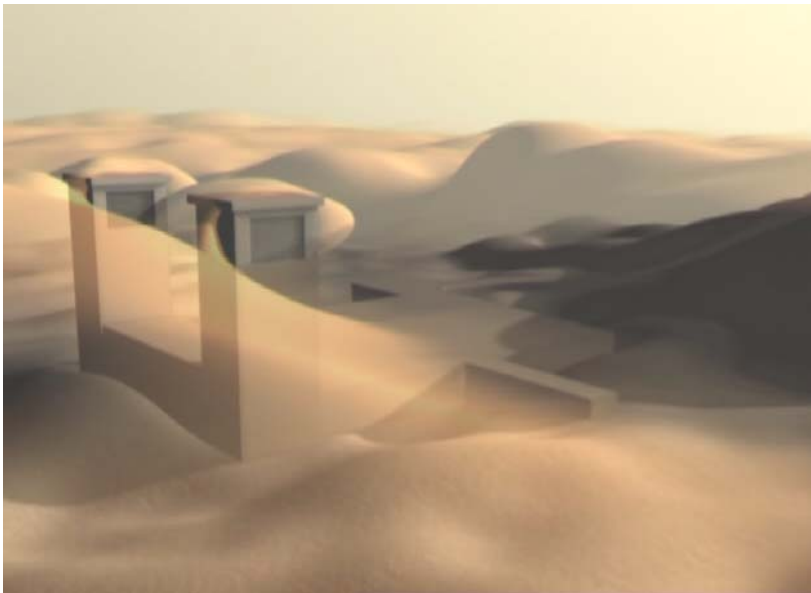
The ESL-TASCs units integrated with NBC-Detection System provides safety in each shelter modes without compromising the life of the personnel inside the shelter. The smart NBC-filtration units enable full control of the NBC-filtration with safety of the system higher than in any other existing system. The system guarantees balanced airflow and maximum usage of the NBC-filters with full fail-safety features. Even in case of a power failure or NBC-filter saturation, the system switches to another operational mode, and the shelter can continue its function without interruption.

TASCs Shelter Operation modes control

The TASCs system enables safe operation and switching of the shelter from one operational mode to another. Manual system build by using overpressure valves or even more accurate gastight closing valves requires a lot of attention from the operational personnel to ensure proper internal overpressure is maintained inside the shelter. The TASCs system automatically switches the shelter from one mode to another based on real situation or by decision of the operating person in shelter control room. The TASCs will provide fail-safe operation and switch shelter to a close-up mode in case any external system fails to support the operations of the shelter. The TASCs system remains operational once it has full UPS-back up, and the shelter will turn back to by-pass or filtration mode depending the situation when the power is restored by mains supply of by auxiliary power.

TASCs provides sophisticated testing cycles

To ensure proper function of the shelter periodic gas-tightness tests shall be conducted. TASCs system enables easy, fast and reliable testing of the shelter. The working time required for preparing the shelter for gastightness test is minimized to zero by TASCs. Additionally, the system stores graphical time/pressure log-file of tightness test for further reference.



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TASCs User-Friendly Solutions

The TASCs-system is designed to make shelter control easy and reliable.

The user interface provides various information of the shelter:

- Status and Control of entire shelter
- Status and Control of each individual control equipment
- Control of NBC-shelter modes
- Control of NBC-filtration systems
- Control of Detection systems
- Control of Shelter testing
- Log-files of the shelter control system
- Log-files of NBC-filtration system

Customized Solutions, Satisfied Customers

The TASCs-system is designed accounting for the wide range of customer's needs for safe operation of a modern NBC-protected facility. Each system is built to the exact individual requirements of the particular facility in question.

The TASCs systems can be built to account for various operation modes, as required by the customer. The TASCs systems can be used to control the access ways either by providing status information or by fully operating the access ways depending during the various shelter operation modes.

What ever is required to be controlled in the shelter during the various NBC-protective modes, the TASCs provides a complete solution.



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TASCs Inside and Outside of Shelter

The TASCs-system can be integrated with Environment Control Systems such as ENVI-Screen by EnviroNics Oy to have entire control and real-time information on the situation outside the shelter during the sheltering modes. This type of system enables the operational personnel to have the right information required for commanding the troops outside the facility thus minimizing the casualties by preventing them from entering highly contaminated areas. The Environment Control System makes possible evacuating people and arranging transportation through less harmful areas.

Whatever the need or anticipated threat, Temet has an engineered solution

Temet is the supplier of choice for Military, Civil Defense Authority and Oil & Gas Industry all over the world.

Temet Special Shelter Equipment and systems are installed in more than 2000 large underground Shelters and hundreds of Industrial facilities around the world.

Temet has engineered solutions for various types of shelters other protection applications.

Military:

- Aircraft Hangars
- Ammunition Plants
- Ammunition Storages
- Command Posts
- High Explosive Facilities
- Operational Shelters (Army, Air force and Navy)
- Missile and Rockets Stations
- Navy ships
- Personnel Shelters

Civil Defence:

- Civil Defence shelters
- Civil Defence HQ's
- Private Shelters

Oil & Gas Refineries:

- Off-Shore and Onshore facilities
- Other Industrial Facilities

Other facilities:

- Hospitals
- Testing laboratories
- Nuclear Power Plants

Call us to discuss your project / facility

Temet will provide turnkey solution for upgrading your existing system or training your designers to design the protective facility by using sophisticated TASCs system from the very beginning.

Call us for site visit to make a proposal for a customized solution. During a site visit our experts can be discuss the current existing facility and agree on the level of a tailor-made package.

Temet is the No. 1 Shelter Equipment supplier

Temet is the one and only supplier to provide a full range of equipment low, medium and high protection level facilities.

With more than 50 years experience, Temet provides full solutions when the protection of your facility shall meet the most extreme conditions caused by nuclear detonation, when the need for protection is by modern conventional weapons or even by industrial accidents.

Temet provides consultation regarding the design of shelters as well as supervises the equipment installation and commissioning phases. Temet is capable of designing the shelter equipment to meet your own specifications or standards. If you would like to learn more about the Temet shelter technology, or want to discuss development of a specific application, we kindly invite you to contact us.



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