

WATER INGRESS SYSTEM

TYPE OAS WI

ALARM SYSTEM FOR BULKERS



Omicron Water Ingress System has been specially designed and manufactured for detecting the presence of water in the inner bottom in any holds reaching a height of 0,5 m and another height of not less than 15 % of the depth of hold but not more than 2 m. Furthermore, also holds located partially or totally forward of the foremost cargo hold, and ballast tanks located forward of the foremost cargo hold, collision bulkhead of Bulk carrier, in conformity with SOLAS regulation XII/ 12 rule requirement.

Different solutions for various type of installations.

- Type approved by several major classification societies.
- Applicable tests acc. to S.f.C.2.4
- Performance test re. SOLAS XII Reg.12, with performance standards as found in IMO Resolution MSC 145(77) and interpretations acc. IACS SC 180

 **OMICRON**
Solutions you can trust

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FOR CARGO HOLDS IN BULK CARRIERS

Omicron WI system consists of a main alarm panel with cabinet and level sensor operated by detecting the conductivity in a liquid when present. The sensor and the alarm panel are connected together with intrinsically safe barrier. When the presence of water has reached the detecting points (ref. rule requirement) of level sensor installed at the preset level in the cargo hold or other space, the electric signals which are activated on the level switches are transmitted to the main alarm panel. At the same time, the audible and visual alarms are activated on the main alarm panel. The system has also all necessary functions like loop monitoring of sensors and power failure. There is also overriding device for which the alarm can be deactivated or reactivated for the detector installed in the tank and holds used for carriage of water ballast according to the SOLAS regulation XIII 12.1. The main power and standby power are prepared in such way that if the main power fails, the standby power will make sure that the alarm panel will be supplied continuously. An alarm will be given under such condition.

The sensor:

Type WI-22 designed for various locations onboard a bulk carrier. The construction is unique with the following advantages:

- Complete unit in stainless steel.
- Non movable parts due to "conductivity principle".
- Classified as "simple apparatus"
- IP 68/ 2.5 bar with 35 m signal cable and mounting bracket included.
- Tested working temperature -25 to 120°C.
- Easy to function test.
- Designed without any active electronic components on deck.
- Can operate in all sorts of bulk cargoes.

The alarm cabinet:

Type OAS is a complete signal monitoring and alarm unit which is delivered for three alarm sensors per cargo hold. The third channel (free of charge) can be used for alarm sensor on top of the cargo for covering water penetration through hatch covers.

- Intrinsically safe connections to sensors.
- Potential free contacts for common external alarms and light & horn.
- All normal alarm functions.
- (Option.) RS 485/422 serial line communication with host computer.
- The Alarm Panel can either be mounted in the front door of the alarm cabinet or in a common console.
- Power supply: 115/230 VAC, Emergency power supply 24V DC

