

G-MAX Marine Sensor Net UNDER WATER

Underwater Intrusion Detection Systems



WHITE PAPER



G-MAX- Marine Sensor Net

INTRODUCTION

The Marine Sensor Net (MSN) is an advanced concept in under water detection, based on a unique sensor cable that it is woven into net configuration with stainless steel special clips. Any attempt to cut, climb over, or pass through the MSN will trigger an alarm.

The Marine Sensor Net can be installed freestanding or attached to any new or existing barriers. A predefined level of mechanical stress on the sensor cable is converted to electronic signals and then processed by the digital and analog analyzers in the MSN controller.

MSN combines cut-through detection and mechanical stress detection, providing effective and reliable front-line intrusion detection for medium and high security risk installations.

OVERVIEW

The underwater fence can extend up to 2 meters above the water line as physical protection against intrusion into sensitive areas above and below the water line. The fence is secured to the seabed with heavy concrete blocks and a floatation system comprised of PE tubes for stability. .

SOLUTION DETAILS

- Marine sensor cable net with very flexible and versatile physical installation options
- Sensor cable is simple to repair in case of damage, inexpensive and easy to maintain and very durable
- A dedicated professional staff is not needed for repairs
- Stainless steel clips are utilized for underwater installation.

System Advantages

- Low false alarm incidence
- Low maintenance costs
- Designed for medium- to high security risk installations
- Any attempt to cut, lift, climb over, crawl under or pass through the MSN triggers an alarm
- Ideal perimeter security solution for: naval bases, power stations, ports, offshore oil rigs, underwater pipelines and cables, aquaculture and protection of rivers, canals and beaches

Product Specifications

| | 1GSM016-C | 1GSM018-C |
|------------------------------|--|--|
| Data Communication | Two Channels - HWS controller | Two Channels RS-485 CMS controller |
| Sensor Net #3SNET003 | Up to 120 sqr meters for each detection channel with 20x20 squares | Up to 120 sqr meters for each detection channel with 20x20 squares |
| Sensor Net #3SNET005 | Up to 150 sqr meters for each detection channel with 30x30 squares | Up to 150 sqr meters for each detection channel with 30x30 squares |
| Power requirement | 11-28VDC 30 mA | 11-28VDC 50 mA |
| Alarm Output | Two Relays dry contacts, one for each detection channel | Multiplex Data communication color graphic display with G-MAX4000 software |
| Signal processing | Adaptive sensitivity | Adaptive sensitivity |
| Operating temperature | -30°C to 55°C | -30°C to 55°C |
| Controller Dimensions | 13 cm diameter, 9 cm height | 13 cm diameter, 9 cm height |
| Humidity | Up to 100% | Up to 100% |
| Sealing | IP67 immersed in water | IP67 immersed in water |
| Test Unit | Computerized test unit Type 1STSUI10 | Computerized test unit Type 1STSUI10 |