



## SMART LNGC SHIP-SHORE LINK SYSTEM

The Future for Ship Shore Link (SSL) Systems combining assured compatibility with high speed digital capability

- Simple Electronic reconfiguration to match respective terminal
- Increased diagnostics capability
- Independent systems to ISO 28460
- Future-Proofed to allow Interfaces to external systems
- Easily updateable via USB Flash drive
- USB downloadable diagnostics

## SMART SHIP-SHORE SYSTEM FOR LNG

SeaTechnik is a UK company specialising in niche areas of the marine and gas markets. A wealth of experience has been gained in the supply of Ship Shore Link systems, Torsion Meters, Precision Draught Measurement systems and Ship's Performance Monitoring/Optimisation systems.



Digital Display in SSL Enclosure.



Optical Cable Connector.



Shipside Connection Box.



Hotline Telephone



MLM Data

## SeaTechnik - PIONEERS OF INTEGRATED WORLDWIDE SSL SYSTEMS

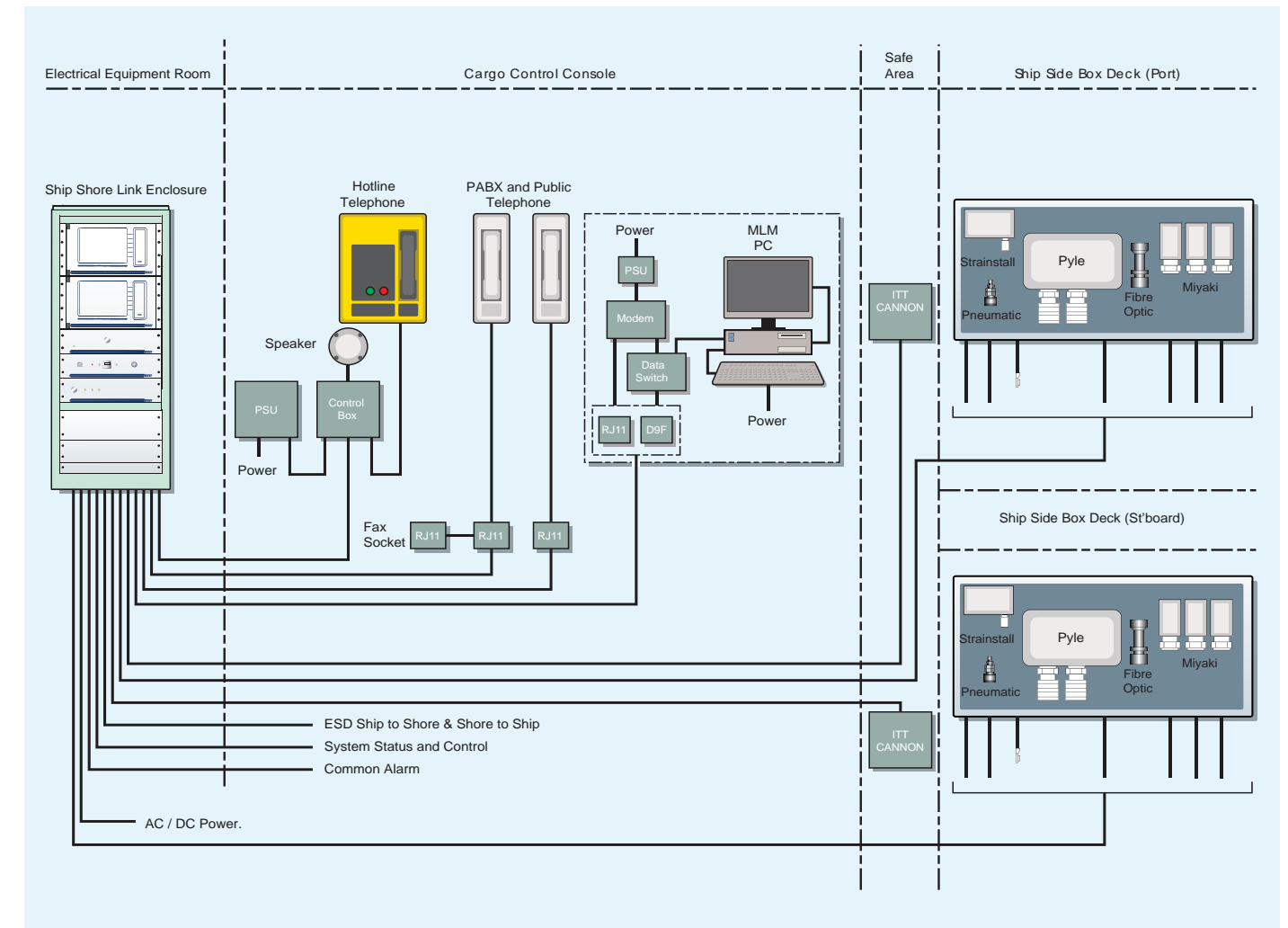
SeaTechnik has been involved in SSL since 1996 and is the leading supplier throughout the World, having received contracts for:

- Over 250 LNG Carriers
- Over 70 LNG / LPG Condensate Terminals
- The extensive knowledge and experience gained as a result of this significant reference list has led to our new Smart SSL system that is the most advanced on the market.
- The Smart Fibre Optic and Electric modules provide a significant change to the operator interface and simplify control and set-up.

Other benefits include:

- Simple Electronic reconfiguration to match respective terminal
- Increase in diagnostics capability
- Main system micro-controller based
- Future-Proofing to allow Interfaces to external systems e.g. DCS
- Easily updateable via USB Flash drive
- USB downloadable diagnostics
- Fibre optic, Electric and Pneumatic are totally independent to conform fully with ISO 28460

Not forgetting that vital requirement, the Smart system retains compatibility with existing ship and shore systems.



Typical Ship Shore Link System Installation

The Smart Fibre Optic and Electric modules are both 6U in size, the main characteristics being as follows:

- Housed in single 19" 6U rack module
- Widely available 10.4" Colour TFT SVGA display
- Touch sensitive capacitive keys for user interface
- Menu driven graphic operation via MS Windows XP Embedded OS
- Powered from main SSL system's dual redundant 24VDC Power supply

## SUMMARY OF BENEFITS

- Pioneers of Integrated Worldwide SSL system
- Proven Track Record...The Leading Supplier
- Proven Worldwide Compatibility
- Experience of ALL types of SSL solutions for both Ships and Terminals
- Involved in all stages of LNG Terminal projects, offering consultancy and advice to ensure worldwide compatibility
- Worldwide Service & Support Network, via UK or Overseas Offices
- Continuous Development Philosophy, with latest technology system available, ensuring full compatibility with existing and future systems
- Digital capability communicates high speed voice, data or video across the link.

## SMART SHIP-SHORE SYSTEM FOR LNG

The SeaTechnik SSL system features fully ATEX EX'd' certified electrical connectors for use in Hazardous areas. As an added safety feature SeaTechnik incorporate EX'ia' Galvanic Isolator interfacing for Emergency Shut Down circuits.

A flexible range of input/output signals can be configured to interface with any control system to suit customer requirements.

The SeaTechnik SSL system can be supplied with any combination of:-

- Fibre Optic System
- Electric System
- Pneumatic System

### Interface Connection Options

- SeaTechnik Fibre Optic Connectors
- Electric – Pyle Connectors
- Electric – Miyaki Connectors
- Electric – ITT Cannon Connectors
- SIGTTO Link Systems
- Pneumatic Systems
- Anti-surge Connectors
- Miyaki/Pyle Adaptors

### Associated Systems and Options

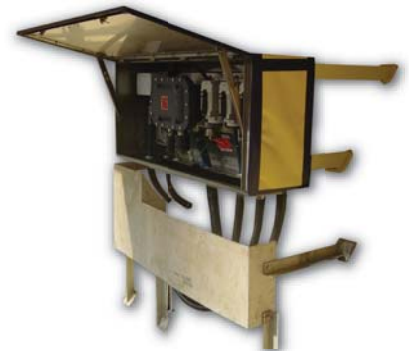
- SeaTechnik/Iwatsu Hotphone
- Electric – Straininstall MLM System
- UHF and Fibre Optic MLM System
- VHF Radio Link

### Test Equipment Options

- Fibre Optic Active Test Unit (ATU)
- Fibre Optic Loop-back Test
- Connector
- Electric Test Unit (ETU)



SSL Cabinet.



SSL Junction Box.

## SERVICE & SUPPORT

SeaTechnik have been designing, manufacturing and supporting leading edge marine systems for over 20 years. Located in the Northwest UK, a team of experienced service engineers provide installation, commissioning and service support both direct, and via a network of technical agents and associates worldwide.

On-going Technical training is offered to both customers' and associates' engineers worldwide.

SeaTechnik, Airfield View, Hawarden Industrial Park, Hawarden, Deeside, Flintshire, CH5 3QW, United Kingdom, Tel: +44 (0)1244 539 635, Fax: +44 (0)1244 539 880  
e-mail: sales@seatechnik.com, website: www.seatechnik.com