

System Command Interface (SCI)



Architecture:

SCI consists of a ruggedized housing, including:

A front panel door fitted with:

- 17" LCD colour touch screen,
- On/Off switch,
- EMC seal,

Tray containing:

- Power distribution ramp,
- CPCI plug-in rack,
- CPU MEN F19P board,
- 8-link RS422/RS485 board,
- AC/DC 250W power supply module
- SCI interface rack,
- Terminal connector blocks.

Features:

Thanks to an ergonomic HMI, the user can display operational status of each system connected to SCI.

The INS source can also be selected. Besides, the user can simulate heading, roll and pitch information coming from the selected INS.

When one system connected to SCI is in failure, that triggers a beeper inside the housing and the lighting of a LED on the front panel. That alarm is then deactivated by the user.

SCI can manage up to two INS and two NDDU and can be connected to other navigation devices (wind system, speed logs...).

HMI is protected by two levels password:

- Administrator password
- User password

Based on the input password, the system may restrict functionalities.

HMI is settable in day or night modes.

The colour touchscreen can be used with gloves.

SCI is attached by six shock absorbers (four on the base, two on the back) and can be handled by four hoist rings on the above panel.

Exploitation modes:

User can choose between two modes:

- Operational mode: to be used to control and command systems connected to SCI (NDDU, INS, Master Clock) and to access complementary information on INS. In complement, parameter for GPS lever arm data can be set up.
- Maintenance mode: depending on the user status (user or administrator) several parameters can be set up (GPS lever arm data, INS period, laser gyroscope drift, version and NMEA delay, bias on the accelerometers, support or ISB harmonisation angle, convention for the attitude angle definition).

Main functions:

SCI is a navigation control & command subsystem.

It is dedicated to:

- The control of Navigation System status,
- The command of the Inertial Navigation System (INS) and the Navigation Data Distribution Units (NDDU),
- The monitoring of INS drift,
- The setup of time zone to display local time.

Inputs/Outputs:

- 2 x RS422 ports for INS (main and back-up)
- 2 x RS422 ports for NDDU (main and back-up)
- 1 x RS422 port for Master Clock (not included)
- 1 x RS422 port for wind system
- 2 x dry contacts for speed logs
- 1 x power supply

User interfaces:

On the front panel, three LED show the system status:

- 2 x LED display INS status, with two possible colours
- 1 x LED displays SDU status, with five possible colours

Environmental data:

- Dimensions (excluding shock absorbers and hoist rings):
 - width: 600mm
 - depth: 700 mm
 - height: 700 mm
- Weight: 100 kg
- Power supply: 230 V, 50 Hz
- Power consumption: 104 VA
- I/O: MIL-DTL-38999 series III connectors
- Noise: 60dB +/- 3dB

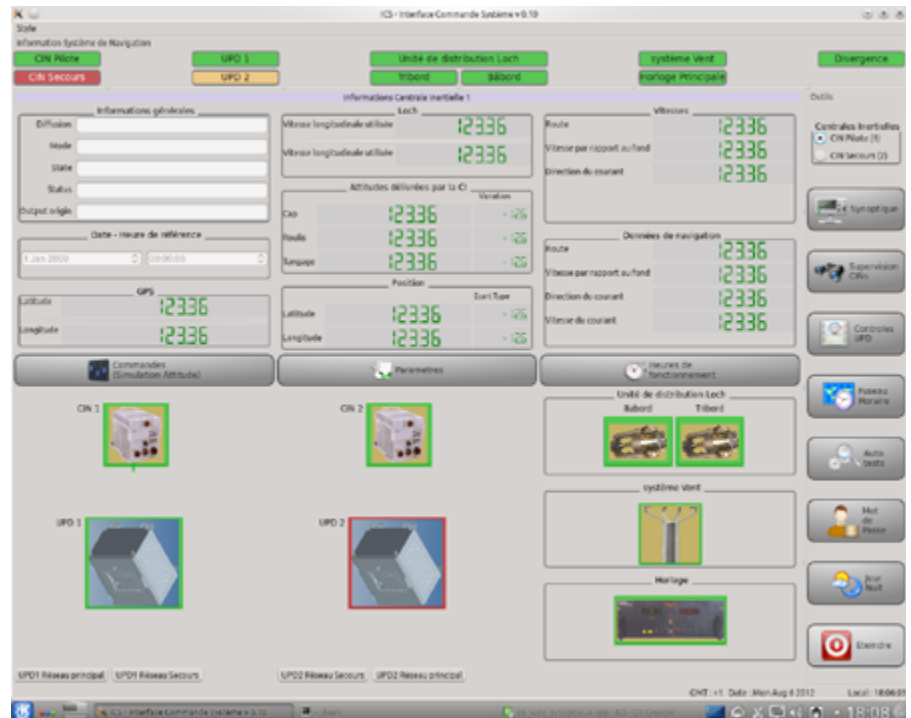
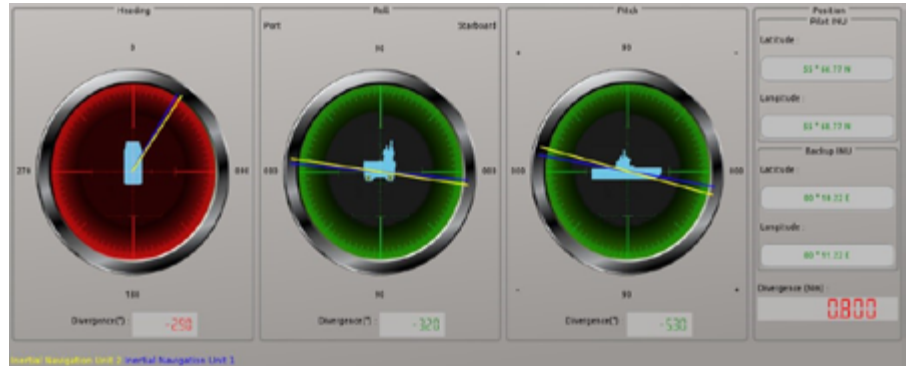
Standards compliance:

- IEC 60945

Product reference:

- NATO code: F7582
- Options: on demand

Designed and made in France by Atos.



According to 96/98/CE Marine Equipment Directive

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