

rehlko

atlant'IS[®] Low voltage *switchboards*

Up to 6300 Amp

Power Control & Distribution



MADE IN FRANCE





atlant'IS® Main Switchboard

Designer of the atlant'IS® system

Rehlko created the atlant'IS® original design and related control in compliance with IEC 61439 – 1 & 2 standards.

Designed in compliance with environmental and social eco-design standards, the atlant'IS® switchboard will answer all your needs for power control and distribution in critical energy situations : data center, hospitals, airports, marine, defence, wasted water, and other critical industries.

It is also designed to adapt to DC power for energy conversion or photovoltaic energy.

Energy Management Systems can be integrated as well.

Strength

- ✓ Eco-design : atlant'IS® was designed to follow environmental and societal regulations
- ✓ Compactness : one of the most compact switchboard on the market
- ✓ Multiple configurations : front, back, higher and lower access
- ✓ High corrosion resistance : Magnelis® metal structure
- ✓ No maintenance busbars
- ✓ Functional Unit multi-configuration
- ✓ Integration of a wide range of equipment from leading manufacturers
- ✓ Answers marine requirements
- ✓ Fahrenheit 10000 Laboratory to perform temperature-rise tests (COFRAC)

Options

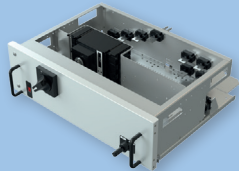
- ✓ Passive and active internal arc protection in compliance with IEC 61641
- ✓ Infra red thermography
- ✓ Specific environments (corrosive, seismic...)
- ✓ Base frame, Technical floor and Package solutions (skid, shelter)
- ✓ Switchboard customization : color, stickers
- ✓ Life cycle analysis (LCA)

Technical information

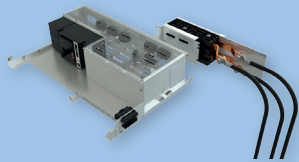
Electrical data	
Designation	Value
Rated operational voltage (Ue)	Up to 690 V
Rated insulation voltage (Ui)	Up to 1000 V
Overvoltage category	IV
Rated impulse withstand voltage	12 kV
Rated frequency	50/60 Hz
Busbar	Bare copper
Rated current of an assembly (I _{nA})	Up to 6300 A
Rated short-time withstand current (I _{cw}) for the main busbars	Up to 130 kA, 1 s
Rated peak withstand current (I _{pk}) for the main busbars	Up to 286 kA
Productive earthing conductor	IT / TT / TNC / TNS
Mechanical data	
Designation	Value
Protection degree	IP 31 up to IP 54
Protection against mechanical impact	IK 10
Withdrawable and removable units	WWW, WWD, WFD, FFF
Form of separation complying with IEC 61439	Form 2 to 4b
Complementary English forms complying with EIEMA	Form 4, Type 1 up to 7
Sheet metal paint	RAL 7035
Roof and base paint	RAL 7024
Environmental characteristics	
Designation	Value
Service	Indoor
Room temperature	-5°C up to +40°C
Average temperature	+35°C
Installation altitude	2000m

Functional units

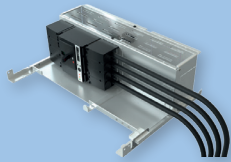
Withdrawable units
IS 233 (WWW) / 333 (WWW)



Removable units
IS 233 (WWW) / 333 (WWD)



Removable Units
IS 223 (WFD)



Technical information

- ✓ ≤ 630 A (PCC & MCC)
- ✓ Plugging and unplugging security while powering
- ✓ Fast and easy maintenance
- ✓ Free evolution when powering



atlant'IS® Smart *Switchboard*

Power control with the sci₅₀₀

System Main Functions

- ✓ Signaling
- ✓ Measures – Metering
- ✓ Control-command
- ✓ Load shedding – Offloading
- ✓ Sources management
- ✓ Temperature control
- ✓ Power control
- ✓ Events history

System description

- ✓ 12" high resolution touch screen HMI
- ✓ Industrial PC
- ✓ Can be interfaced with the sci₄₀₀ range of products

Product strength

- ✓ User-friendly HMI
- ✓ Switchboard centralized monitoring
- ✓ Automatic reconfiguration
- ✓ Unlicensed and open access system
- ✓ Smartphone application
- ✓ Redundancy system

sci₅₀₀ : A real tool for preventive maintenance

Our SCI 500 Smart Communication System is a real tool to help with the operation and preventive maintenance of the atlant'IS switchboard.

System functions

Operating

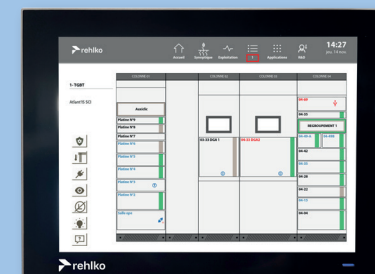
- ✓ Direct access from the HMI
- ✓ Signaling, control-command, electrical measures
- ✓ Temperature management
- ✓ Consumption history
- ✓ Easy communication with SCADA
- ✓ Remote control
- ✓ Can be interfaced with Rehlko generating sets

Maintenance

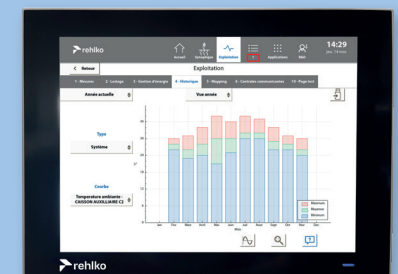
- ✓ Events history
- ✓ Instant measurement with an oscilloscope
- ✓ Embedded documentation (diagram, etc)
- ✓ Maintenance history

Configuration

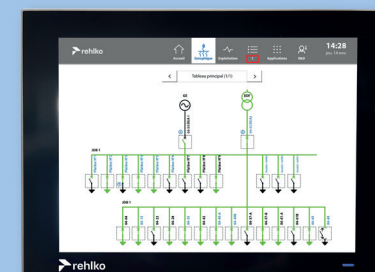
- ✓ Possibility to add or modify settings
- ✓ Warning alert configuration
- ✓ Functional unit automatic reconfiguration
- ✓ Load shedding management
- ✓ Ladder programming and customizing



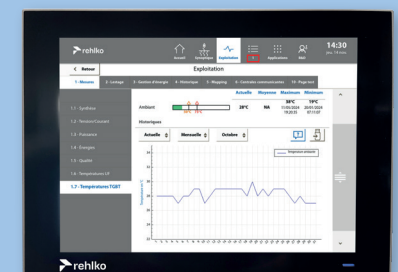
Switchboard front access



Power management

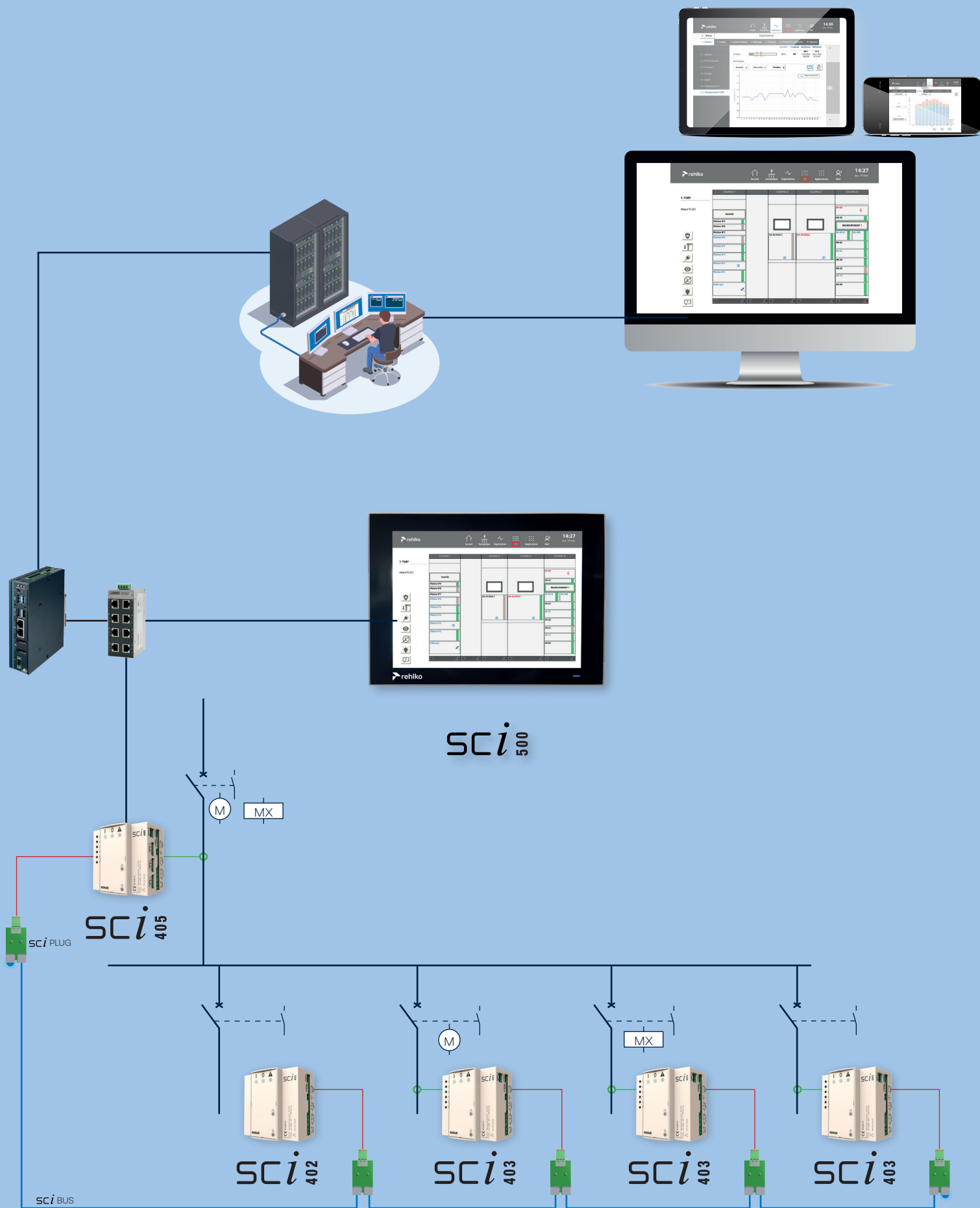


Single line diagram view

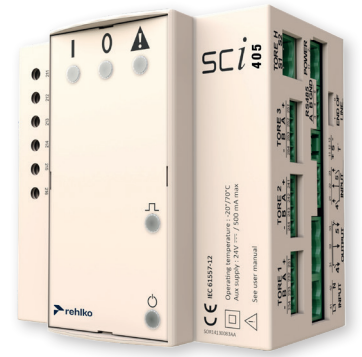


Temperature management

atlant'IS® : SCi 500 Smart *Solution*



sci₄₀₀ Range of products



Selection guide

	sci ₄₀₂	sci ₄₀₃	sci ₄₀₅
Functional unit control (circuit breaker, contactor, ...)	●	●	●
Stop-start-default signaling	●	●	●
Functional unit command (circuit breaker, contactor, ...)	●	●	●
Functional unit temperature measurement	●	●	●
RS485 communication	●	●	●
Current measurement by current transformers		●	●
Measures and metering (IEC 61557-12)		●	●
Ethernet communication			●
Local signaling option + additional inputs	○	○	
Local signaling and control command option + additional inputs	○	○	

- Available
- Option

Signaling options

This option allows you to move your functional unit control command and signaling to the withdrawable unit front access :

- ✓ Signaling indicators : Stop – Start – Default and Light test
- ✓ Control command : Stop – Start local mode



Signaling



Control command and signaling



rehlko

Power Control & Distribution +33241645200
18 rue de la Gâtine, ZAC du Cormier, 49304 Cholet

www.powercontrol.rehlko.com

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