



COPORE 4

Control and Balance for Rectifiers

General Information

COPORE is a solution of currents measurement and balance for rectifiers. It helps to reduce the production dependency on the equipment with his reliable and fast solution of control and balance.

COPORE measure the current in each element of rectifiers (Branch, Diodes, Thyristors...) to check the balances in the branches and sub-assemblies.

COPORE is the key reference product for balance measurement of power bridge rectifiers – diodes and thyristors. With its sensors, it analyses and monitors with accuracy to avoid any troubles.

A reliable solution

COPORE 4 is the last upgrade of our product with a measuring accuracy of 1%.

COPORE is a key partner of the industry for many years. After 5 years of research and in collaboration with an aluminium factory; COPORE was designed with the accuracy of the industry. The aim

to reduce the maintenance fees in controlling and qualifying the calibration of the voltage rectifiers.

An easy and intuitive system

CORPORE doesn't have competitor in terms of accuracy, reliability, convenience of use, security and efficiency.

It is a key equipment for every organization using a power conversion system.

A full solution

Leader of the market; the product developed by MIQRO is the key reference based on its accuracy, convenience of use and reliability. It is the leader on the market for currents measurement of rectifiers.

Based on a digital technology, COPORE integrate the best of analogic technology with a signal processing unique in this field.

Synchronous measurements:

COPORE 4 afford the possibility of synchronous measurements from 6 to 216 currents sensors.

Rogowski sensors are non-saturable and openable with several sizes to fit with each type of rectifier.

Measurable currents are from 50A to 5000A with 4 measurement ranges. Some other ranges are available on specific request.

Use:

- Rectifiers control and maintenance
- Data Analysis and its specific processing
- Check and control processes of the rectifier manufacturers
- Factory Acceptance Tests of new rectifiers
- Monitor the performances of power systems with high currents level
- Insure the preventive maintenance of power systems with high currents level
- Maintain availability of power systems with high currents levels (rectifiers, electrode furnaces...)

Customers & users:

Mainly, Industrial Companies for their DC manufacturing plant; aluminium factories, zinc factories, nickel factories, precious metals ...

Also, silicon factories, railways transport, chemical industries ...

Today COPORE is used by more than 30 industrials companies across 15 countries.

COPORE System is the worldwide reference for the measurement and the balance of rectifiers.

Its main assets

MIQRO is the only worldwide manufacturer handling and selling an integrated measurement system allowing a simultaneous measurement of 216 channels with a final accuracy of 1%

COPORE is a standard product, adaptable and modular able to be settled with new material and software functions.

COPORE is a product developed by MIQRO for many years. It is the 4th release of a system able to measure and analyse with accuracy the current's form of each diode of a three-phase rectifier or any other alternative current types.

A complex system resulting of several technologies development

- Openable Rogowski sensors
- Electronic of measurement
- Digital signal processing
- Simultaneous acquisitions of 216 channel
- Dielectric Strength of the entire acquisition chain
- Specific Processing of Data analysis