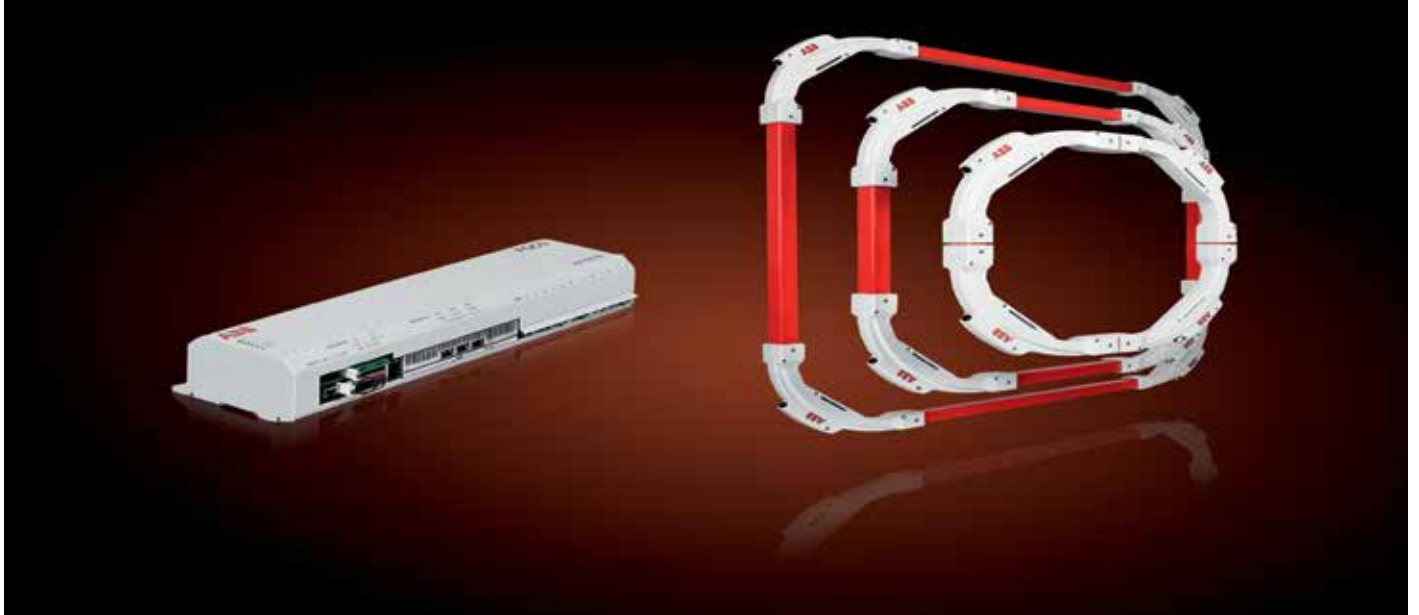


Service for high power rectifiers VeriFOCS - verify your DC current measurement



ABB's VeriFOCS (Fiber Optical Current Sensor) service Program is a fast and cost effective way to verify the accuracy of your existing DC-metering system.

This service is available for equipment of any brand.

Measurable while the system is powered up

This service can be part of a scheduled preventive maintenance activity or can be performed anytime without a plant shutdown.

Efficient application

The sensing fiber of the VeriFOCS can be placed around the busbar without opening it.

Independent of magnetic fields

The signal is determined by the enclosed current, independent of any stray magnetic field distribution, and is not influenced by currents outside the fiber-optic loop. The sensor can thus be placed anywhere along the busbar without fear of interference.

Plug-in and verify

There is no need for calibration after installation.

The VeriFOCS (Fiber-Optic Current Sensor) is a basic loop optic fiber enclosed around the busbar. The sensor integrates the magnetic field along the closed path, described by the sensing fiber and as a result, the signal is independent of the particular magnetic field distribution and only determined by the enclosed current. All magnetic fields outside the fiber-optic loop are of no influence, sensor placement is therefore not critical.

ABB supplies

ABB VeriFOCS benefits

Fast and easy installation

High accuracy $\pm 0.1\%$ of the measured DC current

Multiple meter readings at various locations in a single day

Completely independent of the surrounding magnetic fields

Compact size, little weight, easy to handle

Measuring range up to 500 kA available

Scope of supply

Installation of ABB VeriFOCS

DC current measurements on site

Customer supplies

Information to be supplied by the customer prior to a quotation

Measuring range (kA) to be expected

Dimensional drawings of the busbar system

Predefinition of the measuring locations

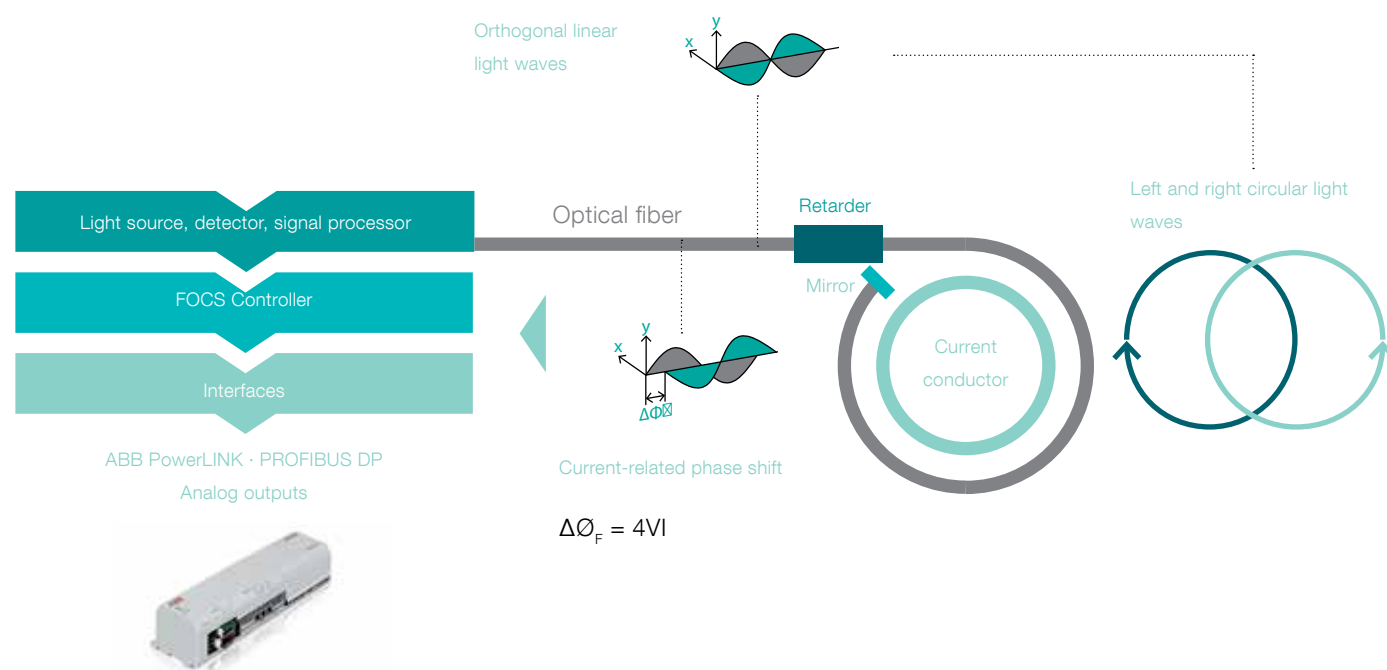
Photographs of the busbar system

Pre-conditions for execution, required customer support

Busbar system accessible for the installation of the measuring unit

High Power Rectifier system available for operation at different load-taps

Availability of one electrician to assist



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